Form 3160-3 (November 1983) (formerly 9-331C) CONFIDENTIA' TIGHT HOLE

ICATE* SUBMIT IN T (Other instru-reverse side) 18 OU

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND BERIAL NO. UTU-65949

	BOKERS S.			00 01110 0	1 611	6. IF IN	DIAN, ALLOT	TEE OR TRIBE NAME	
APPLICATION	FOR PERMIT T	O DRILL, I	DEEPE	N, OR PLUG B	ACK	N/A			
DRILL XX DEEPEN			PLUG BACK			7. UNIT AGREEMENT NAME			
b. TYPE OF WELL		DEEPEN		1 LOG DA	<u></u>	N/A	:		
OIL GA	S OTHER CO	albed Meth	ane zo	NGLE WULTIP	<u> </u>		OR LEASE	NAME	
2. NAME OF OPERATOR	214/750-3800	6688 N. C	entra	al Expressway,	#1000	4	leral	·	
PG & E Resourc	•	Dallas, T	X 7!	5206		9. WELI		•	
3. ADDRESS OF OPERATOR	303/452-8888	13585 Jac					5-14		
Permitco Inc.	- Agent	Denver, C	0 80	0241		10. FIE	TO WHO POOL	L, OR WILDCAT	
4. LOCATION OF WELL (Re	eport location clearly and	in accordance wit	thany S	tate requirements.")		11 ggc	., T., B., M., (OR REK	
	1124' FSI	and 964'	FEL				SURVEY OR		
At proposed prod. zon	e 2E 2E 366	. 14				Sec	. 14, 7	T12S - R10E	
14. DISTANCE IN MILES	NO DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	<u> </u>		1		ISH 13. STATE	
	h of Price, Utal					Car	rbon	Utah	
15. DISTANCE FROM PROPU			16. NO	OF ACRES IN LEASE	17. No.	OF ACRES	ASSIGNED		
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	124'		2560	10 1	HIS WELL	160		
(Also to nearest drlg	osed Location		19. PH	OPOSED DEPTH	20. ROTA	RY OR CA	BLE TOOLS		
TO NEAREST WELL, DI OR APPLIED FOR, ON THE	DITTING COMPLETED.	x. 2600'		4360'		Rotary			
21. ELEVATIONS (Show who			<u>·</u>		·	1	22. APPROX. DATE WORK WILL START*		
7651' GR								y upon appr	
23.	F	ROPOSED CASI	NG ANI	CEMENTING PROGR.	AM	of -	this ap	plication.	
	SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH	1	QUA	NTITY OF CE	MENT	
SIZE OF HOLE		24#		500'	350 s	x or	suffic	to circ to	
12-1/4"	8-5/8" 5-1/2"	17#		4360'				to cover zo	
7-7/8"	3-1/2	1./ π	of interest.						
		ļ			1				
PG & E Resource Point Coals for If dry, the wel	, aas Ibad mathan	a it nro	duct1	ive, casinu wii	i be ri	ili aliu	CHC MC	11 Compace	
If dry, the well	i will be plugg	ed alla aba	Haone	d as per berr a				•	
See Onshore Ord									
above mentioned	sed that PG & E d well. PG & E of the lease fo	Resources	Compa	anv agress to D	e respo	ו עו צווט	e unaer	CHE CELINS	
and conditions	for this well is	nnovidad	by R	and No. 11-18701	1 The	e nrin	cipal i	s PG & E	
Bond coverage 1	any via surety (soncont as	DY DO	ided for in 43	CFR 31	04.2.	0,000		
Resources Compa	any via surety (Jonsen C as	prov	raca for the fo					
	E PROPOSED PROGRAM: If	nronosal is to dee	nen or	ning back, give data on t	resent pro	ductive so	one and pro	posed new producti	
zone. If proposal is to preventer program, if an	drill or deepen directions	ally, give pertiner	nt data	on subsurface locations a	nd measur	ed and tru	ie vertical d	epths. Give blowe	
24.			C	onsultant for				-	
	Al Traile			G & E Resources	Compa	ny	DATE	8/25/92	
SIGNED (Ti	ITLE						
(This space for Fede	eral or State office use)								
PERMIT NO.				APPROVAL DATE					
requit NV.									
APPROVED BY			ITLE				DATE		
CONDITIONS OF APPRO	VAL, IF ANY:								

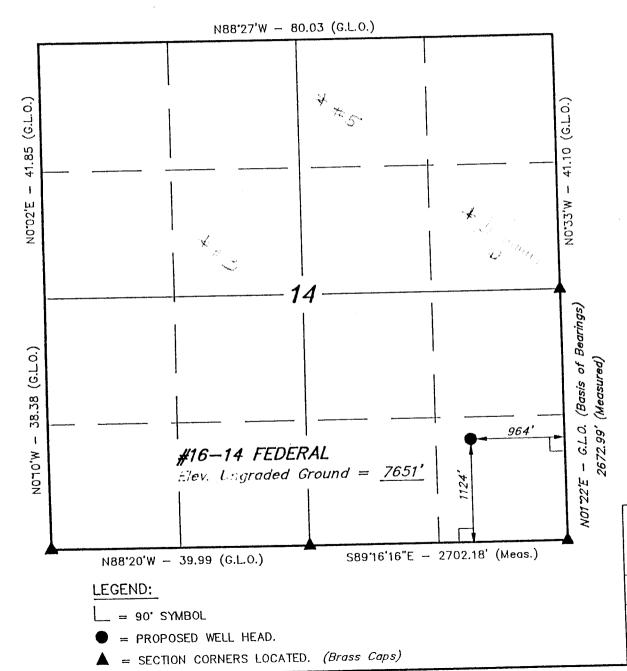
*See Instructions On Reverse Side

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

(Other instructions on reverse side)

ח סבו /	VISION OF OIL, GAS, AN	ID MINING		5. Lease	Designation and	Serial No.
Di	VISION OF OIL, GAO, A			UTL	J-65949	
A DDI ICATIONI E	OR PERMIT TO DRI	II DEEPEN	OR PILIG BA	CK 6. If Inc	lian, Allottee or T	ribe Name
	OK PERMIT TO DRI	ice, Deer Ert,	OK TEOU DA	11/ /		
1a. Type of Work DRILL	X DEEPEI	4 \square	PLUG BACK		Agreement Name	
h. Type of Well		 -		N/ <i>F</i>	or Lease Name	
Oil Gas Well	Other Coalbed	Methane z_o	ne XX Multiple Zone	الـا		
2. Name of Operator 214/	750-3800 668	38 N. Centra	1 Expressway,	#1000 Fed	No.	
PG & E Resource		llas, TX 75		#16	5-14	
3. Address of Operator 303/		585 Jackson		10. Field	l and Pool, or Wild	leat
Permitto Inc	- Agent Der	nver, CO 80	Z41		latant	
At surface	1124' FSL and 96			11. Sec.	T., R., M., or Bl Survey or Area	k.
	SE SE Sec. 14	74 LEE /	.000	*- #-		
At proposed prod. zone	JL JL JCC. 14	\$\sigma^{\sigma}_{\sigma} = \frac{1}{2} \sigma^{\sigma}_{\sigma} = \frac{1}{2} \sigma^{\sigma}_{	AUG 2 7 1992	Sec	c. 14, T129	S - R10E
14. Distance in miles and dire	ection from nearest town or post	office*			nty or Parrish 1	
15 miles north	of Price, Utah		<u> </u>	<u>Ca</u>	rbon	Utah
15. Distance from proposed* location to nearest		,	acres in lease	No. of acres a	ssigned	
property or lease line, ft. (Also to nearest drlg. line,	, if any) 1124		560	20. Rotary or cable	100	
18. Distance from proposed lo to nearest well, drilling, of	completed.	19. Propos			toois	
or applied for, on this leas	. app. ox	4	360'	Rotary	oprox, date work w	vill start*
21. Elevations (Show whether	Dr, RT, GR, etc.)			•		upon approva
7651' GR		- CLANIC LVD OT	DECEMBER DESCRIPTION		f this app	
20.	PROPOSE	ED CASING AND CE	MENTING PROGRAM			
Size of Hole		ght per Foot	Setting Depth		antity of Cement	sing to surf
12-1/4"	8-5/8"	24#				<u>circ to s</u> urf. cover zones
7-7/8"	5-1/2"	17#		of interes		COVET ZOTICS
	•			01 11100103		
DC & F Posou	rces Company propos	es to drill	a well to 436	0' to test	the Black	hawk and
Starnoint Coals f	or coalbed methane.	If product	tive, casing w	ill be run	and the w	e11
completed. If dr	y, the well will be	plugged and	dabandoned as	per BLM a	nd State o	f Utah
requirements.	,	. 33		·		
See Onshore Order	No. 1 attached.					
Bond coverage for	this well is provi	ded under Bo	ond No. 8063-3	88-07 and 8	8057-26-00.	
	taliad at same about	dand faataa	as dua ta tana	vananhy P	C & F Reso	urces
This location was	staked at non-stan ase holder of all l	laara tootay: anda within	es due to topo a 1// mila ra	ography. r Sdius of th	e nronosed	location.
Therefore we red	uest administrative	anus within	a 1/4 mile ro n an exception	to spacin	a for this	well.
inererore, we req	uest administrative	. approvar c		, 00 00000	.9	•
						anaged way pro-
IN ABOVE SPACE DESCRI	BE PROPOSED PROGRAM: If to drill or deepen directionally, g	proposal is to deeper give pertinent data o	ı or plug back, give dat: n subsurface locations aı	a on present produ nd measured and t	ictive zone and pro true vertical depth:	s. Give blowout
preventer program, if any.						
24.	1, 0		sultant for			T 100
Signed Disks of) Unite	Title PG	& E Resources	Company	Date 8/2	25/92
(This space for Federal or	r State office use)		1.0			TATE 2
13	·007·3017.			C.F. Ellis	**************************************	OF THE
Permit No.	<u> </u>	Apr	roval Date			1:3

T12S, R10E, S.L.B.&M.

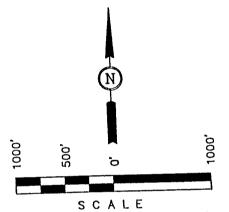


PG&E RESOURCES COMPANY

Well location, #16-14 FEDERAL, located as shown in the SE 1/4 SE 1/4 of Section 14, T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT A RIDGE TOP LOCATED IN THE NW 1/4 OF SECTION 23, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8003 FEET.

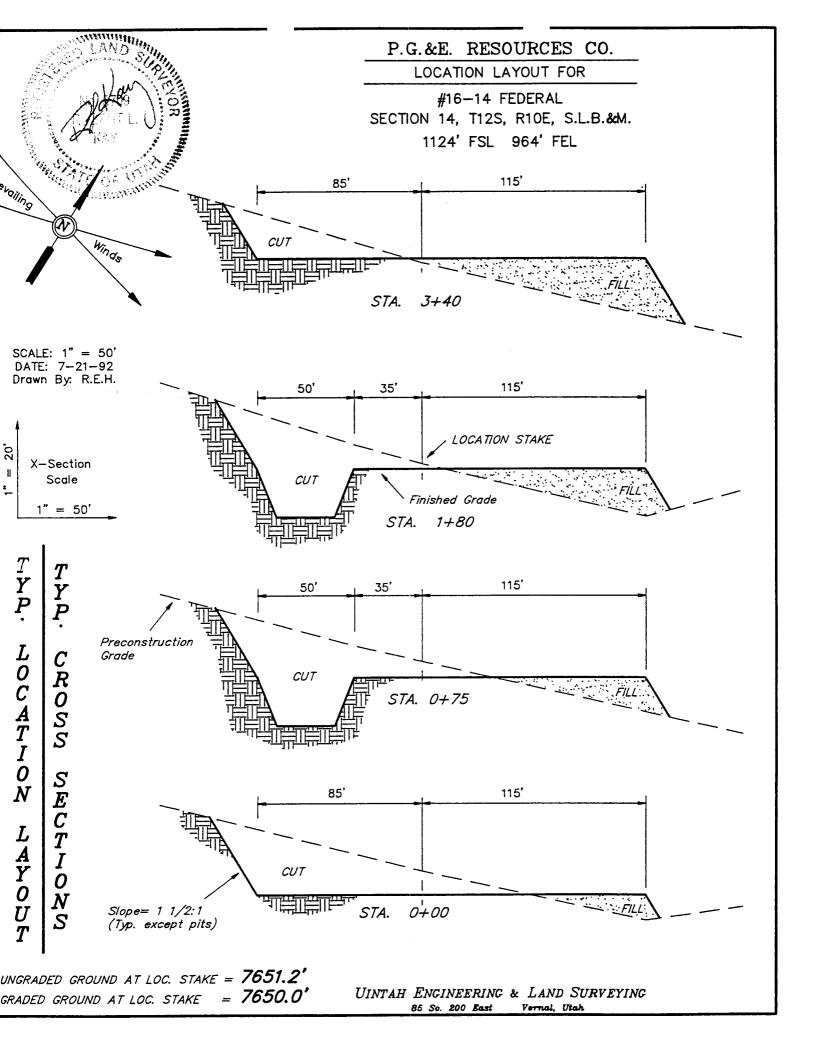


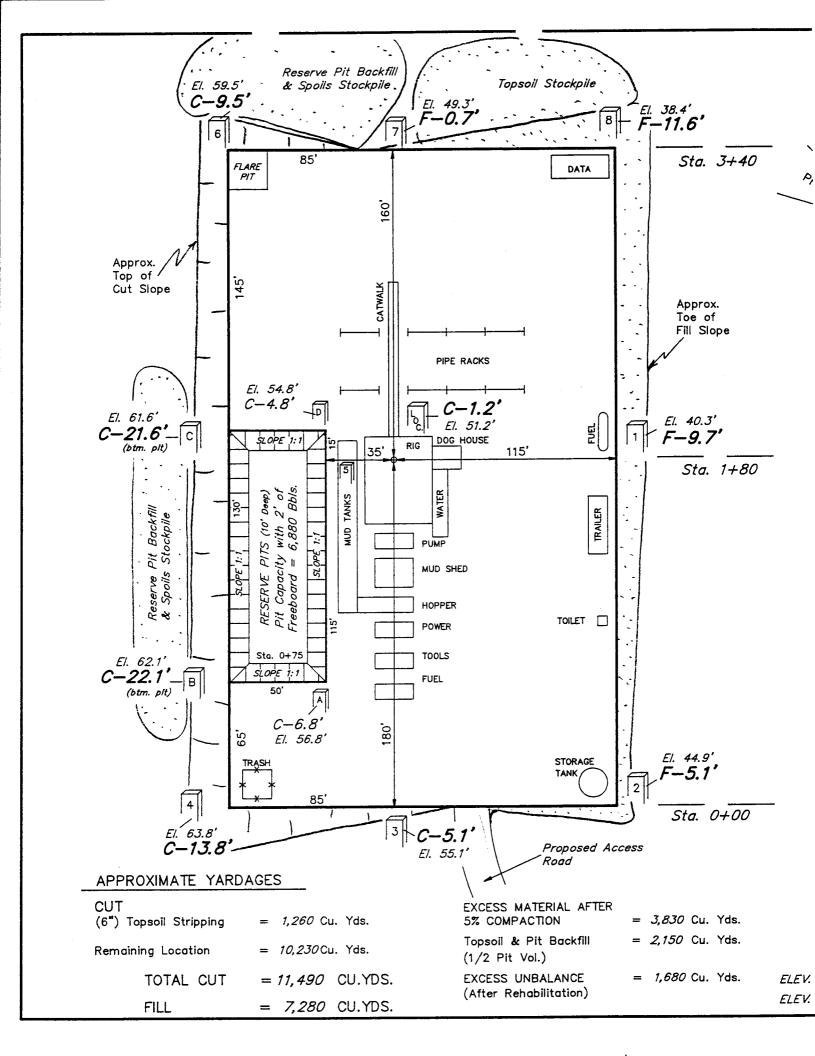
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER SUPERVISION AND THAT THE SAME ARE TRUE AND BEST OF MY KNOWLEDGE AND BELIE

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL UTAH 84078 (801) 789-1017

(001	, 100 101.				
SCALE 1" = 1000'	DATE SURVEYED: 7-20-92	DATE DRAWN: 7-23-92			
PARTY G.S. R.A. J.L.G.	REFERENCES G.L.O. PL/	REFERENCES G.L.O. PLAT			
WEATHER	FILE				
HOT	PG&E RESOUR	PG&E RESOURCES			





ONSHORE OIL & GAS ORDER NO. 1

Approval of Operations on Onshore Federal and Indian Oil & Gas Leases

> #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E Carbon County, Utah

> > Prepared For:

P G & E RESOURCES COMPANY

By:

PERMITCO INC. 13585 Jackson Drive Denver, Colorado 80241 303/452-8888

Copies Sent To:

- 3 BLM Moab, Utah
- 1 BLM Price, UT
- 1 Utah Division of Oil, Gas & Mining SLC, UT
- 3 PG & E Resources Dallas, TX
- 1 PG & E Resources Vernal, Utah



June 1, 1992

Bureau of Land Management

RE: Designation of Agent Authority



Gentlemen:

Please be advised that Permitco, Inc. is hereby delegated authority to act as Agent on behalf of PG&E Resources Company and is authorized to execute any County, State and Federal permit applications and other related regulatory documents.

This authority is to remain in effect until further notification.

Should you have any questions regarding this issue, please contact the undersigned.

Jem Latevers

Jim LaFevers

Regulatory Affairs Supervisor

JL\ap

wp51\jl\design.agt

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DRILLING PROGRAM
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ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. The estimated tops of important geologic markers are as follows:

Formation	Depth	<u>Subsea</u>
Flagstaff	Surface	
Price River	2395'	+5290'
Castlegate	2861'	+4824'
Blackhawk	3134'	+4551'
Kenilworth (S.P. I)	3848'	+3837'
Aberdeen (S.P. II)	4060'	+3625'
T.D.	4360'	

2. The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation .	Depth
Coal Gas	Blackhawk	3134'
Coal Gas	Star Point	3848-4060'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.



DRILLING PROGRAM
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All water shows and water-bearing sands will be reported to the BLM in Moab, Utah. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. PG & E's minimum specifications for pressure control equipment are as follows:

Ram Type: 10" Hydraulic double, 2000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed;
- b. whenever any seal subject to test pressure is broken
- c. following related repairs; and
- d. at 30-day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) the check valve shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.



ONSHORE ORDER NO. 1 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14 T12S - R10E Carbon County, Utah

DRILLING PROGRAM
Page 3

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The Price River Resource Area Office shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 11", 2000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is <u>not</u> to be used as a fill-up line.



ONSHORE ORDER NO. 1 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14 T12S - R10E Carbon County, Utah

DRILLING PROGRAM
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- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit <u>all</u> tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
- 4. a. The Price River Resource Area Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.
 - b. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.
 - c. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).
 - d. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
 - e. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
 - f. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.



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DRILLING PROGRAM
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- g. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
- h. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
- i. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- j. Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.
- k. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- 1. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- m. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.



ONSHORE ORDER NO. 1 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14 T12S - R10E Carbon County, Utah

DRILLING PROGRAM

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n. The proposed casing program will be as follows:

11.	The pro	·F	_				<u>New</u>
Purpose Surface Produc.	Depth 0-500' 0-4360'	Hole Size 12-1/4" 7-7/8"	O.D. 8-5/8'' 5-1/2''	Weight 24# 17#	<u>Grade</u> K-55 N-80	Type ST&C LT&C	or Used New New

- o. Casing design subject to revision based on geologic conditions encountered.
- p. The cement program will be as follows:

Surface 0-500'	Type and Amount Cement to surface with 350 sx Premium Cement + 2% CaCl2 + 0.25 lb/sk Flocele (or equivalent).
	T A mount

Production Type and Amount

Two stage cement to surface with stage tool at 3200'. <u>First Stage:</u> 205 sx 50/50 Pozmix + 2% Gel + 0.25 % Flocele. <u>Second Stage:</u> 200 sx Silica Lite + 4% Gel + 4% CaCl2.

- q. The Price River Resource Area Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- r. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- s. The following reports shall be filed with the District Manager within 30 days after the work is completed.



DRILLING PROGRAM
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- 1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:
 - a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
 - b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- t. Auxiliary equipment to be used is as follows:
 - 1. Kelly cock
 - 2. No bit float is deemed necessary.
 - 3. A sub with a full opening valve.
- 5. a. The proposed circulating mediums to be employed in drilling are as follows:

Interval	Mud Type	Mud Wt.	Visc.	<u>F/L</u>	<u>PH</u>
0-500'	Air/Spud Mud	8.4-9.0	32-50	N/C	8.0-9.0
500-3300'	FW/Gel Sweeps	8.4-8.8	28-32	N/C	8.0-9.0
3300-4360'	FW-LSND	8.6-9.0	34-45	10-15	8.0-9.0

There will be sufficient mud on location to control a blowout should one occur.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, static filtration loss, and Ph.



DRILLING PROGRAM
Page 8

- b. Mud monitoring equipment to be used is as follows:
 - 1. Periodic checks will be made each tour of the mud system. The mud level will be checked visually.
- c. Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing or completion operations.
- 6. The anticipated type and amount of testing, logging and coring are as follows:
 - a. No drill stem tests are anticipated, however, if DST's are run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- b. The logging program will consist of a Cased Hole Dual Spaced Neutron w/Gamma Ray, 2" & 5" from T.D. to base of surface casing. An Acoustic CBL/CCL will be run (5") from T.D. to base of surface casing.
- c. No cores are anticipated.



DRILLING PROGRAM
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- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).
- e. The anticipated completion program is as follows:

Perforate and fractures zones of interest and place on pump.

- 7. a. The expected bottom hole pressure is 1892 psi. No abnormal pressures or temperatures are anticipated.
 - b. No hydrogen sulfide gas is anticipated.
- 8. a. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
 - b. Production data shall be reported to the MMS pursuant to 30 CFR 216.5 using form MMS/3160.
 - c. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Permitco

DRILLING PROGRAM
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- d. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.
- e. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- f. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 and Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- g. Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).



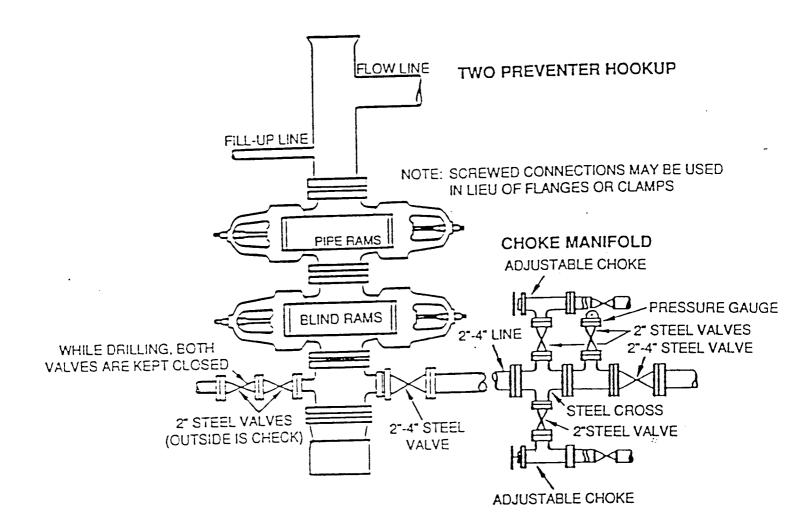
DRILLING PROGRAM
Page 11

- h. Drilling will commence immediately upon approval of this application.
- i. It is anticipated that the drilling of this well will take approximately 16 days.
- j. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.
- k. <u>Immediate Report:</u> Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- m. Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- n. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative. or the appropriate Surface Managing Agency.



PG&E RESOURCES COMPANY

TYPICAL 2,000 PSI BLOWOUT PREVENTER SCHEMATIC



SURFACE USE PLAN
Page 1

ONSHORE OIL & GAS ORDER NO. 1

Thirteen Point Surface Use Plan

1. Existing Roads

- a. The proposed well site is located approximately 15 miles north of Price, Utah.
- b. Directions to the location from Price, Utah are as follows:

From Price proceed north on Highway 6 for 9.0 miles. Turn right onto Highway 33 and proceed northeasterly for 6.3 miles. Turn right onto a county road and proceed west for 0.7 miles. Turn south onto an existing oilfield road and proceed 0.7 miles to a fork in the road. Turn left and follow an existing road for 1.0 miles to the Shimmin Trust #2 well. Continue in a southeasterly direction for 0.4 miles to a fork in the new access route. Turn right and follow the flagging an additional 0.4 miles in a south and west direction to the location.

- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to the existing access will not be necessary.
- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

2. Planned Access Roads

a. There will be approximately 0.8 miles of new access road to be constructed. The access will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.



SURFACE USE PLAN
Page 2

- b. The maximum grade will be 8%.
- c. No turnouts are planned.
- d. Culverts will be installed as determined necessary by the dirt contractor and operator. One low water crossing will be installed as shown on Map "B".
- e. The access road was centerline flagged at the time of staking.
- f. Surfacing material may be necessary depending on weather conditions, however, none is anticipated at this time.
- g. One cattleguard will be installed as shown on Map "B" if requested by the surface owners.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- 3. <u>Location of Existing Wells Within a 1-Mile Radius of the Proposed Location.</u> (See <u>Map #B).</u>
 - a. Water wells -none
 - b. Injection wells -none
 - c. Producing wells three
 - d. Drilling wells none
- 4. Location of Tank Batteries and Production Facilities.
 - a. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a neutral color to blend with the surrounding environment. Facilities required to comply with



ONSHORE ORDER NO. 2 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E Carbon County, Utah

SURFACE USE PLAN
Page 3

the Occupational Safety and Health Act (OSHA) will be excluded.

- b. If storage facilities/tank batteries are constructed on this lease, the facility/battery or the wellpad shall surrounded by a containment dike of sufficient capacity to contain at a minimum, the entire content of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.
- c. All loading lines will be placed inside the berm surrounding the tank battery.
- d. Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.
- e. The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil and Gas Order No. 4 for liquid hydrocarbons and Onshore Oil and Gas Order No. 5 for natural gas measurement.
- f. A Sundry Notice will be submitted showing placement of all production facilities prior to construction.
- g. Any necessary pits will be properly fenced to prevent any wildlife entry.
- i. All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.
- j. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Authorized Officer.
- k. All access roads will be maintained as necessary to prevent erosion and



SURFACE USE PLAN
Page 4

accommodate year-round traffic.

l. The road will be maintained in a safe useable condition.

5. Location and Type of Water Supply

- a. All water needed for drilling purposes will be obtained from the following existing production pits:
 - 1) N 540' E 1900' from SW cor., Sec. 11, T12S R10E
 - 2) N 793' W 780' from SE cor., Sec. 11, T12S R10E
 - 3) S 1980' E 1780' from NW cor., Sec. 14, T12S R10E
 - 4) S 660' W 2340' from NE cor., Sec. 14, T12S R10E
 - 5) S 1980' W 800' from NE cor., Sec. 14, T12S R10E
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.
- d. A copy of the approved water permit is on file with the Division of Water Rights in Price, Utah. (t92-91-12).

6. Source of Construction Material

- a. Surface and subsoil materials in the immediate area will be utilized.
- b. Any gravel used will be obtained from a private or commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2.3. Construction material will not be located on lease.
- d. No construction materials will be removed from Federal land.



SURFACE USE PLAN
Page 5

7. Methods of Handling Waste Disposal

- a. The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined if determined necessary at the time of construction.
- b. If the pit is lined, a plastic nylon reinforced liner will be used. It will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight.
- d. After first production, produced waste water will be confined to a unlined pit or storage tank for a period not to exceed ninety (90) days. During the 90-day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.
- e. Drill cuttings are to be contained and buried in the reserve pit.
- f. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- g. Sewage will be placed in a portable chemical toilet or holding tank and disposed of in accordance with state and county regulations.
- h. The produced fluids (other than water) will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.



SURFACE USE PLAN Page 6

8. Ancillary Facilities

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

9. Well Site Layout

- a. The reserve pit will be located on the southwest side of the location.
- b. The stockpiled topsoil (first six inches) will be stored along the perimeter of the location as shown on the rig layout.
- c. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- d. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.
- e. During construction, all brush will be removed from the wellpad and access road and stockpiled separately from the topsoil.
- f. All pits will be fenced to prevent wildlife entry.
- g. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until cleanup.

10. Plans for Restoration of Surface

Producing Location

a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.



ONSHORE ORDER NO. 1 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E Carbon County, Utah

SURFACE USE PLAN Page 7

- b. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
- c. If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.
- d. Once the reserve pit is dry, the reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.
- e. The location will be reclaimed and reseeded as per the surface owner's request.

Dry Hole

f. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.

11. <u>Surface Ownership</u>

Access Roads - All roads are County maintained or private surface.

Wellpad - The well pad is located on lands owned by Mathis Land, Inc., c/o Dale Mathis, Sunnyside Star Route, Price, UT 84501.

12. Other Information

- a. A Class III archeological survey was conducted by Sagebrush Archeological Consultants. No significant cultural resources were found and clearance has been recommended. A copy of this report is attached.
- b. The operator is responsible for informing all persons in the areas who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during



ONSHORE ORDER NO. 1 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E Carbon County, Utah

SURFACE USE PLAN
Page 8

construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

- -whether the materials appear eligible for the National Register of Historic Places;
- -the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- -a time frame for the AO to complete and expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate. If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.
- c. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.
- d. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- e. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.h.



SURFACE USE PLAN Page 9

- f. "Sundry Notice and Report on Wells" (From 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- g. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period.
- h. The operator or his contractor shall contact the BLM Offices at 801/977-4300 48 hours prior to construction activities.

13. Lessee's or Operator's Representative and Certification

Permit Matters
PERMITCO INC.
Lisa L. Smith
13585 Jackson Drive
Denver, CO 80241
303/452-8888

Drilling & Completion Matters
PG & E Resources Company
6688 N. Central Expressway
Suite 1000
Dallas, TX 75206
214/750-3800 - (W) George Taylor
214/233-5640 - (H)
801/789-4573 - (W) Mike McMican

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by PG & E Resources Company and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.



ONSHORE ORDER NO. 1 PG & E Resources Company #16-14 Federal 1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E Carbon County, Utah

SURFACE USE PLAN Page 10

This statement is subject to the provisions of 18.U.S.C. 1001 for the filing of a false statement.

August 25, 1992

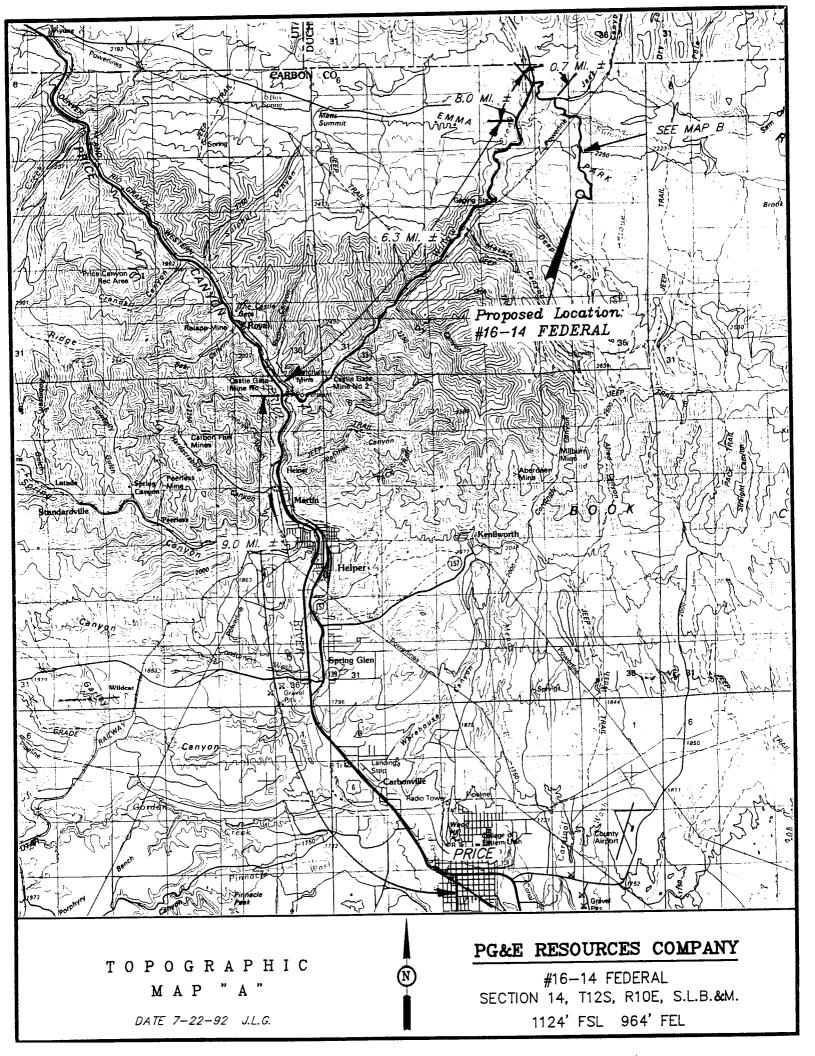
Date:

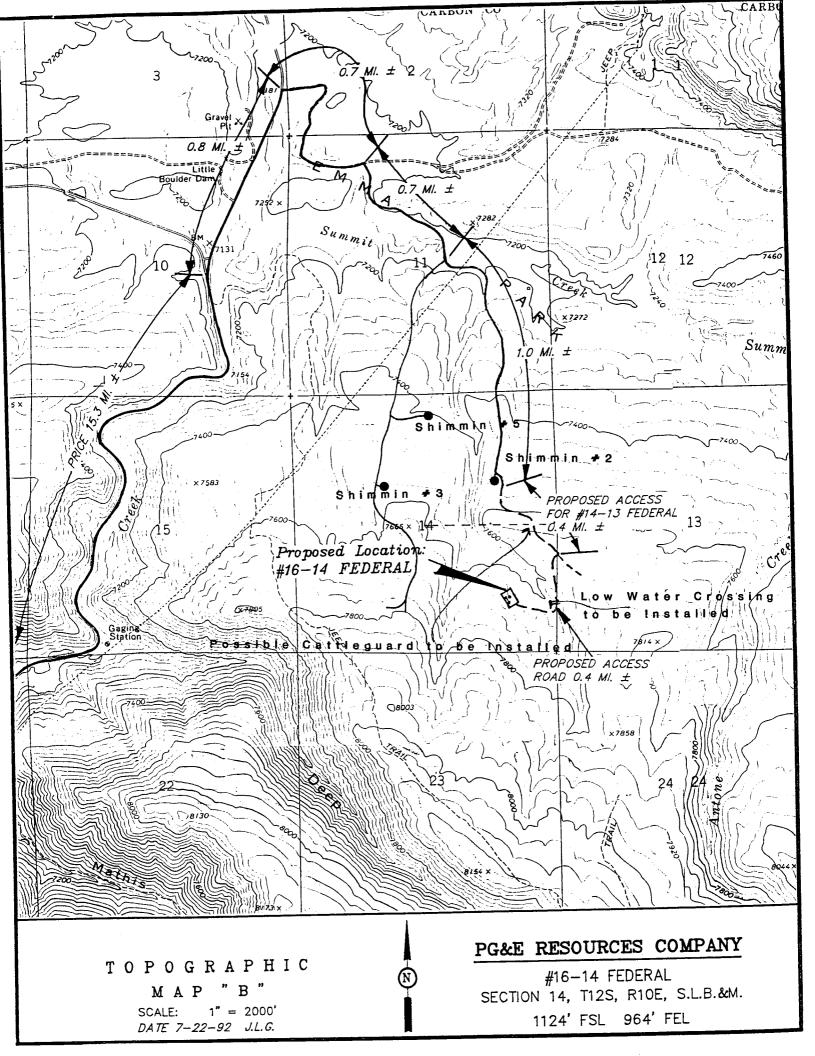
Lisa L. Smith - PERMITCO INC.

Authorized Agent for:

PG & E Resources Company







There are no federal stipulations at this time.



A CULTURAL RESOURCES SURVEY OF PG&E WELLS FEDERAL 16-14 and 14-13 AND ACCESS ROADS, CARBON COUNTY, UTAH

by

Michael R. Polk Principal Investigator

Prepared for:

PG&E Resources Company P.O. Box 25655 Dallas, Texas 75225

Prepared by:

Sagebrush Archaeological Consultants 3670 Quincy Avenue, Suite 203 Ogden, Utah 84403

Under Authority of Cultural Resources Use Permit No. 91-UT-54630

and

Utah State Antiquities Permit No. U-92-SJ-341b,p

Archaeological Report No. 550

August 5, 1992

INTRODUCTION

In July 1992, PG&E Resources Company (PG&E) requested that Sagebrush Archaeological Consultants (Sagebrush) conduct a cultural resources inventory of two well locations and access roads for PG&E wells #16-14 Federal and #14-13 Federal in Carbon County, Utah. The well locations are located in T. 12S., R. 10E., S. 14 SE¼SE¼ and S. 13 CSW¼. Footages for the well locations are as follows: #16-14 (1124' FSL, 964' FEL); #14-13 (914' FSL, 1677' FWL). The access road segments surveyed are also located within S. 14 and 13. The project area lies on the 7.5' USGS Matts Summit, Utah Quadrangle (1969) on private surface lands with federal minerals ownership (Figure 1). The project was carried out by the author on July 23, 1992 under authority of Cultural Resources Use Permit No. 91-UT-54630 and Utah State Antiquities Permit No. U-92-SJ-341b,p.

A file search was carried out by Evie Seelinger of the State Historic Preservation Office (SHPO) in Salt Lake City on July 15, 1992 to determine if any cultural resources projects had been conducted or sites recorded in the project area. This also included a search of paleontological records. In addition, a file search was done by the author on July 22, 1992 at the Bureau of Land Management, Price Resource Area Office, prior to conducting the fieldwork.

One project has been undertaken in the vicinity of the present project area. In 1990 Metcalf Archaeological Consultants conducted an inventory of five well pads and access roads for Cockrell Oil Corporation in the area. One of these wells lay in the NW¼NW¼ of S. 13. No sites were found during this inventory.

In addition to a search of previous projects and known sites, the National Register of Historic Places (NRHP) was consulted prior to conducting the survey. No Register sites were found to exist in the vicinity.

ENVIRONMENT

The well pads and access roads are located in rugged and high topography on the south side of the west end of the Book Cliffs-Roan Plateau Region of the Colorado Plateau. The project location is on the south side of Emma Park Valley on slight to moderately sloping terrain with a few outcrops of limestone and sandstone bedrock. The elevation of the area ranges from 7520 to 7730 feet a.s.l. Soils in the area are generally silts and silty clays. Vegetation cover ranges from 30 to 60 percent in a sagebrush-bunchgrass community. It includes sagebrush, bunchgrass, rabbitbrush, and prickly pear cactus. Most of the sagebrush along the access road has been killed by herbicide. In the area of the 14-13 well the vegetation cover is denser and includes chokecherry, juniper, and scrub oak. The vegetation in the area of the 16-14 well also includes aspen groves and some juniper. The nearest permanent water source to the area is Deep Creek, located about one half mile to the southwest.

Natural disturbance in the area includes sheetwash and some arroyo cutting. Cultural disturbance has been caused by an existing well location, two track roads and fence lines.

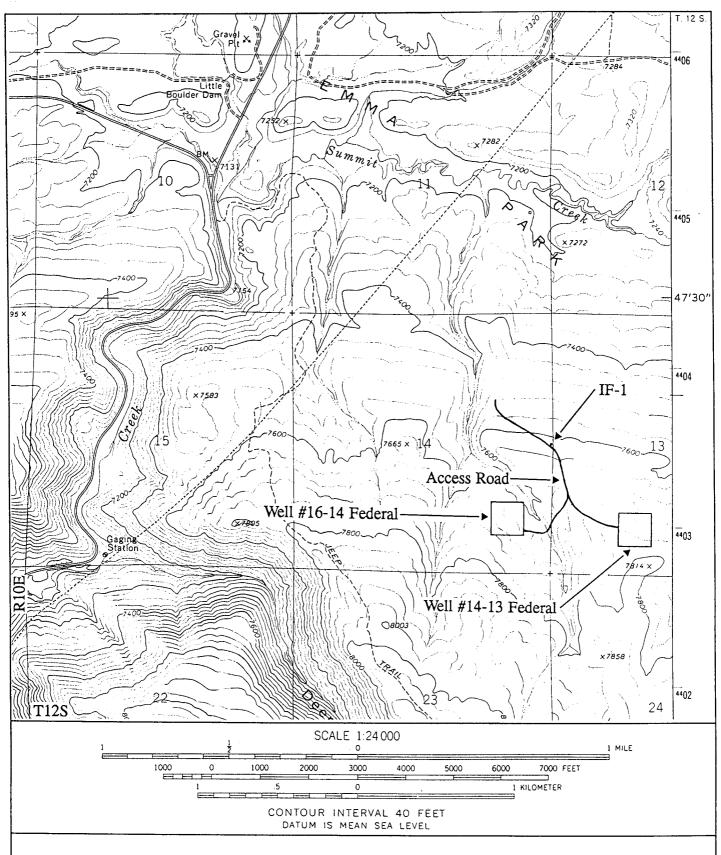


Figure 1. Locations of PG&E Resources wells Federal #16-14 and Federal #14-13 with access roads and IF-1 shown. Taken from: USGS 7.5 Quadrangle Matts Summit, Utah (1969).

METHODOLOGY

The survey area covered during this project consists of two 10 acre parcels of land centered on the well heads and proposed access road corridors connecting the well locations to existing roads. The well pad areas were inventoried by the author in parallel transects spaced 15 meters apart. The access roads, which total 1.02 miles in length, were walked in two parallel transects to cover a corridor width of 100 feet (30 meters). The area surveyed on this project (including both well pads and access roads) totaled 32.17 acres.

RESULTS

One isolated find of several historic metal objects was encountered along the access road in S. 14 (IF-1). Found on a thickly vegetated steep slope were one hole-in-top can, two tobacco tins, two fragments of other cans and a fragment of smooth wire. There were no features associated with the materials nor was there an indication of cultural depth at the location. No other isolated finds, sites or paleontological remains were found during this inventory.

RECOMMENDATIONS

The one isolated find (IF-1) recorded during the inventory is not considered significant. It lacks physical integrity, is not associated with cultural features and lacks any potential cultural depth.

Because significant cultural or any paleontological resources were not found during this inventory, both cultural and paleontological clearance is recommended for the proposed project.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources which could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the State Archaeologist, Antiquities Section, Division of State History, Salt Lake City.

Southeast District Health Dept. P.O. Box 800 Price, UT 84501 801/637-3671

Operator	PG & E Resources Company	Telephone	214/750-	3800
Address 6688 N. Central Expressway, Suite 1000 Dallas, TX 75206		Contact Jim LaFevers		
Agent Permitco Inc.		Telephone	Telephone 303/452-8888	
Address 13585 Jackson Drive Denver, CO 80241		Contact	Lisa Smi	th
Well Name and Number #16-14 Federal				
Legal Loca	tion 1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E	County Carl	oon	State Utah

Proposed Facilities:

1) Holding Tank	Size	1500 gallon	Supplier Mtn. West Oilfield Services		
2) Fresh Water Tank Size 100 Bb1.		100 ВЬ].	Supplier West Hazmat		
3) Trash Cage			Supplier Mtn. West Oilfield Services		
3) Porta-Toilets	#	2	Supplier Mtn. West Oilfield Services		
4) Trailers/Living Facilities			# 2		
5) Total Personnel Onsite			# 8		
Proposed Spud Date: October 5, 1992					
Attachments: Rig Layout Topographic Map					

Comments:

Proposed rig: Grace Rig #181

() LAK TO SHOULD S	Title: Consultant for PG & E Resources Company	Date: 8/25/92
(June) South	L	



AUG 2 7 1992

August 25, 1992

DIVISION OF OIL GASS & BANNING

Division of Oil, Gas & Mining 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203 Attn: Tammi Searing

Re: PG & E Resources Company

#16-14 Federal

1124' FSL and 964' FEL SE SE Sec. 14, T12S - R10E Carbon County, Utah

Dear Tammi,

Enclosed please find three copies of the A.P.D. on the above mentioned well along with one copy of the Onshore Order No. 1 which was filed with the Bureau of Land Management. A temporary change application is on file with the Division of Water Rights, Price. Utah for use of the proposed water sources.

Please forward approved copies of the A.P.D. to Jim LaFevers at PG & E's new address:

> PG & E Resources Company 6688 N. Central Expressway, Suite 1000 **Dallas, TX 75206**

If you should need additional information, please feel free to contact me.

Sincerely,

PERMITCO INC.

Lisa L. Smith

Consultant for:

PG & E Resources Company

Enc.

PG & E - Dallas, TX cc:

PG & E - Vernal, UT

Permitco Incorporated

A Petroleum Permitting Company





August 6, 1992

FUG | 0 1992

Division of Oil, Gas & Mining 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203

Attn: Tammi Searing

Re: PG & E Resources Company

Castlegate Prospect

Application for Temporary Change

of Water

Carbon County, Utah

Dear Tammi,

Enclosed please find one copy of the Application for Temporary Change of Water for PG & E's Castlegate Prospect in Carbon County, Utah.

As you know, several Applications for Permit to Drill have already been submitted and several additional applications will be forthcoming.

In future applications I will reference the Change Application Number (t92-91-12 (91 Area), rather than send additional copies of this application.

If you should need additional information, please feel free to contact me.

Sincerely,

PERMITCO INC.

Lisa L. Smith

Consultant for:

PG & E Resources Company

Sun & Smith

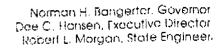
Enc.

cc: PG & E Resources - Dallas, TX

PG & E Resources - Vernal, UT

Permitco Incorporated

A Petroleum Permitting Company





Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

July 31, 1992

West Hazmat Oil Field Services Inc. Attn: Dale Price East Highway 40 Roosevelt, Utah 84066

Re: Temporary Change Application #t92-91-12 Expiration Date: November 30, 1992

Dear Mr. Price:

The above referenced Temporary Change Application is hereby approved, and a copy is enclosed for your information and records.

If you have any questions, please feel free to contact me.

Sincerely,

Mark P. Page Regional Engineer

cc: Bob Davis - Price River Commissioner

William a. Warmuck

Enclosures MPP/mjk RECEIVED

/// / OIL OAS, MINING

APPLICATION FOR TEMPORARY CHANGE

OF WATERRECEIVED REC. by
PER POID 3
AUG 0 1992 STATE OF UTAHL 3 1 1992 Receipt #
STATE OF UTAFIL 5 Microfilmed
DIV. OIL, GAS, MINING WATER RIGHTS Roll#. — — —
DIV. Oil, GAS, MINING For the purpose of obtaining permission to make a temporary change of water initities tate of Utah, application is For the purpose of obtaining permission to make a temporary change of water initities tate of Utah, application is For the purpose of obtaining permission to make a temporary change of water initial state of Utah, application is
For the purpose of obtaining permission to make a temporary change of water in the State of otal, approached the foreign made to the State Engineer, based upon the following showing of facts, submitted in accordance with the hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the
"WATER RIGHT NO. 91 . Area *APPLICATION NO. t 92 . 91 . 12
Changes are proposed in (check those applicable) $\frac{\chi}{\chi}$ point of diversion. $\frac{\chi}{\chi}$ place of use. $\frac{\chi}{\chi}$ nature of use. $\frac{\chi}{\chi}$
point of diversion. A place of use.
1. OWNER INFORMATION Name: West Hazmat Oil Field Services Inc. "Interest:%
Name: West Highway 40 Address: East Highway 40 State Utah Zin Code: 84066
PoncoveltSIGIO:
City: Roosevert
the state of the s
3. RIGHT EVIDENCED HY: 91-366, Cert.#a229, Morse Decree First Class
3. RIGHT EVIDENCED BY: 91-300, Octovasas,
Temperatu Change Applications for this right: $\frac{t91-91-09}{200}$; $\frac{t92-91-03}{200}$; $\frac{t92-91-04}{200}$;
Prior Approved Temporary Change Applications for this right:
在自身在在在自身在在身份的,但是是在这个人,但是是是一个,
4. QUANTITY OF WATER: 7.98 cfs and/or ac-ft.
cource. Price River
Canhon
6. COUNTY: Carbon 7. POINT(S) OF DIVERSION:
S. 560 ft. & E. 680 ft. from Na Cor. Sec. 1, 1110, 110,
Description of Diverting Works: Concrete diversion dam, earthen ditches
8. POINT(S) OF REDIVERSION The water has been rediverted from at a point: at a point:
Bandwine .
,
Description of Diverting Works:
9. POINT(S) OF RETURN The amount of water consumed is 7.98 cfs or ac-ft.
r . r
because the boun returned to the natural stream/source at a point(s):

^{*}These items are to be completed by the Division of Water Rights.

	NATURE AND PERIOD OF U trigation: From March 1 to November 30
	Crockwatering: Fromto
	From10
	Municipal: From
	Tuom 10
	Power: Fromto
11.	PURPOSE AND EXTENT OF USE Irrigation: 12,576.07 acres. Sole supply of 488.10 acres. Stockwatering (number and kind):
	Domestic: Families did/or research
	Mining:
	Mining: Wining District in the Ores mined: Type: Capacity: Other (describe):
12.	PLACE OF USE Legal description of place of use by 40 acre tract(s): Carbon Canal Delivery System
13	STORAGE Reservoir Name: ac-ft. Inundated Area: acres. Height of dam: feet. Legal description of inundated area by 40 tract(s):
## ##	**************************************
14	OUANTITY OF WATER:cfs and/or13.0ac-ft. SOURCE: _1) Willow Creek 2) Underground Exploratory Wells Or will be used as heretofore:X
15	5. SOURCE: 1) Willow Creek 2) Underground Exploratory Netros Balance of the water will be abandoned:, or will be used as heretofore:
	Balance of the water will be abandoned:
11	6. COUNTY: Carbon 7. POINT(S) OF DIVERSION: See Attached Sheet
• •	
	2) Existing 5k" casing,
	Description of Diverting Works: 1) Portable pump to tank truck 4425 to 4667 feet deep "COMMON DESCRIPTION: 10 miles NE of Helper Matts Summit Quad
ı	8. POINT(5) OF REDIVERSION The water will be rediverted from
	Description of Diverting Works:
1	POINT(S) OF RETURN The amount of water to be consumed isc(s or13.0_ac-ft. The amount of water to be returned isc(s orac-ft. The water will be returned to the natural stream/source at a point(s):
	The water will be returned to the lighter water was a specific production of the lighter water w

nug 04,32 11.11 10.002 1.04

WEST HAZMAT CURY. TEL:1-801-(89-92()

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Signature of Applicant(s)

West Hazmat Oil Field Services Inc. Temporary Change Application #t92-91-12 (91 Area) July 31, 1992

#17 Points of Diversion:

Willow Creek: N. 320 ft. & W. 290 ft. from SE Cor. Sec. 3, T12S, R20E, SLB&M.

Shimmin Trust Wells:
Shimmin Trust #1: N. 793 ft. & W. 780 ft. from SE Cor. Sec. 11;
Shimmin Trust #2: S. 1980 ft. & W. 800 ft. from NE Cor. Sec. 14;
Shimmin Trust #3: S. 1980 ft. & E. 1780 ft. from NW Cor. Sec. 14;
Shimmin Trust #4: N. 540 ft. & E. 1900 ft. from SW Cor. Sec. 11;
Shimmin Trust #5: S. 660 ft. & W. 2340 ft. from NE Cor. Sec. 14;
all T12S, R10E, SLB&M.

#22 Place of Use:

1210-0806: S. 2400 ft. & E. 1769 ft. from NW Cor. Sec. 8 (SE4NW4) #7-9 Federal: S. 2109 ft. & W. 2038 ft. from NE Cor. Sec. 9 (SW4NE4) #4-15 Federal: S. 660 ft. & E. 450 ft. from NW Cor. Sec. 15 (NW4NW4) #4-13 Federal: S. 1174 ft. & E. 1168 ft. from NW Cor. Sec. 13 (NW4NW4) #9-10 Jensen: N. 2500 ft. & W. 1020 ft. from SE Cor. Sec. 10 (NE4SE4) #2-16 State: S. 780 ft. & W. 1971 ft. from NE Cor. Sec. 16 (NW4NE4) #9-16 State: N. 1993 ft. & W. 702 ft. from SE Cor. Sec. 16 (NE4SE4) #11-10 Jensen: N. 1650 ft. & E. 1650 ft. from SW Cor. Sec. 10 (NE4SW4) #5-10 Jensen: S. 1680 ft. & E. 660 ft. from NW Cor. Sec. 10 (SW4NW4) #16-10 Jensen: N. 330 ft. & W. 330 ft. from SE Cor. Sec. 10 (SE4SE4) #7-15 Jensen: S. 1650 ft. & W. 1650 ft. from NE Cor. Sec. 15 (SW4NE4) #11-11 Shimmin Trust: N. 2350 ft. & E. 1500 ft. from SW Cor. Sec. 11 (NE4SW4) #10-11 Shimmin Trust: N. 2300 ft. & W. 1850 ft. from SE Cor. Sec. 11 (NW4SE4) #12-12 Shimmin Trust: N. 2310 ft. & E. 990 ft. from SW Cor. Sec. 12 (NW4SW4) #14-12 Shimmin Trust: N. 660 ft. & E. 1980 ft. from SW Cor. Sec. 12 (SE4SW4) #11-15 Jensen: N. 1850 ft. & E. 1650 ft. from SW Cor. Sec. 15 (NE4SW4)
#16-9 Jensen: N. 1150 ft. & W. 1150 ft. from SE Cor. Sec. 9 (SE4SE4)
#16-15 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 15 (SE4SE4) #14-14 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 14 (SE4SW4) #14-16 Federal: N. 990 ft. & W. 990 ft. from SE Cor. Sec. 14 (SE4SE4) #14-13 Federal: N. 990 ft. & E. 1650 ft. from SW Cor. Sec. 13 (SE4SW4) All T12S, R10E, SLB&M.

Alternate Wells: #12-9 Jensen: N. 2054 ft. & E. 592 ft. from SW Cor. Sec. 9 (NW4SW4) #14-9 Jensen: N. 675 ft. & E. 2170 ft. from SW Cor. Sec. 9 (SE4SW4) #4-16 State: S. 922 ft. & E. 750 ft. from NW Cor. Sec. 16 (NW4NW4) #11-16 State: N. 1980 ft. & E. 1980 ft. from SW Cor. Sec. 16 (NE4SW4) All T12S, R10E, SLB&M. -X.)

STATE ENGINEER'S ENDORSEMENT

TEMPODARY	CHANGE	APPLICATION	NUMBER:	t92-91-12	
TEMPLIKANT	CHANGE	MI I MA OF IT POLITY			

1. July 31, 1992

Change Application received by BW.

2. July 31, 1992

Application designated for APPROVAL by MP.

3. Comments:

Conditions:

This application is hereby APPROVED, dated July 31, 1992, subject to prior rights and this application will expire on November 30, 1992.

Jac Mark Page, Area Engineer

Robert L. Morgan, State Engineer

APPLICATION FOR PERMIT TO DPILL

DATE RECEIVED: 08/27/92

OPERATOR: PG & E RESOURCES COMPAN WELL NAME: FEDERAL 16-14	OPERATOR ACCT NO: N- 0595
API NO. ASSIGNED: 3-007-30 LEASE TYPE: FED LEASE NO: LOCATION: SESE 14 - T12S - R10E	1/11-1059/9
RECEIVED AND/OR REVIEWED: Plat Bond (Number feducal) Potash (Y/N) Oil shale (Y/N) Water permit (Number ffd fl (N) RDCC Review (Y/N) (Date: 508 fn) COMMENTS: date add will a	
STIPULATIONS:	CONFIDENTIAL PERIOD EXPLAIN ON _ 9-28-94



State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

September 17, 1992

PG & E Resources Company 6688 N. Central Expressway, #1000 Dallas, Texas 75206

Gentlemen:

Re: Federal #16-14 Well, 1124 feet from the south line, 964 feet from the east line, SE 1/4 SE 1/4, Section 14, Township 12 South, Range 10 East, Carbon County, Utah

Pursuant to Utah Admin. R. 649-3-3, Exception to Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

- 1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
- 2. Notification within 24 hours after drilling operations commence.
- 3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
- 4. Submittal of the Report of Water Encountered During Drilling, Form 7.
- 5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
- 6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Page 2 PG & E Resources Company Federal #16-14 Well September 17, 1992

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-007-30174.

Sincerely,

Associate Director, Oil and Gas

ldc

Enclosures

CC:

Bureau of Land Management

J.L. Thompson

WOI1

STATE ACTIONS

Mail to: RDCC Coordinator 116 State Capitol Salt Lake City, Utah 84114

1.	ADMINISTERING STATE AGENCY OIL, GAS AND MINING 355 West North Temple		TE APPLICATION IDE (assigned by State Cl	
	3 Triad Center, Suite 350			
	Salt Lake City, Utah 84180-1203	3. APP	ROXIMATE DATE PRO	OJECT WILL START:
			Upon approv	
4.	AREAWIDE CLEARING HOUSE(s)	RECEIVING ST.	ATE ACTIONS:	
	(to be sent out by agency in block	1)		
	Southeastern Utah Association of C	3overnments		
5.	TYPE OF ACTION: /_/ Lease /X	/ Permit / / L	icense //Land Acc	puisition
		/_/ Land Exch		
6.	TITLE OF PROPOSED ACTION:			
	Application for Permit to Drill			
7.	PG & E Resources Company, prop	oses to drill the	Pederal #16 14 wall	(wildoot) on fodoral lanes
• •	UTU-65949 in Carbon County, Utah	This action is	s heing presented to	RDCC for consideration of
	resource issues affecting state inte	erests. The U.	S. Bureau of Land M	anagement is the primary
	administrative agency in this action	and must issue	e approval before ope	erations commence
8.	LAND AFFECTED (site location map	p required) (ind	licate county)	
	SE/4 SE/4, Section 14, Township 1	2 South, Hange	e 10 East, Carbon Col	inty, Utah
9.	HAS THE LOCAL GOVERNMENT(s) BEEN CONTA	CTED?	
		,		
10.	POSSIBLE SIGNIFICANT IMPACTS	LIKELY TO OC	CLID	
	See Attachment	LIKELI 10 000	oon.	
11.	NAME AND PHONE NUMBER OF PROJECT SITE, IF APPLICABLE:	DISTRICT REF	PRESENTATIVE FROI	M YOUR AGENCY NEAR
	THOOLOT ONE, IF AFFEIDABLE.			
40	FOR FURTHER INFORMATION			
12.	FOR FURTHER INFORMATION, CO	ONTACT: 13		TITLE OF AUTHORIZED
	Frank R. Matthews		OFFICIAL:	- 18 Intikeu
	PHONE: 538-5340		DATE: 9/1/92	Petroleum Engineer
WO	l187			

Form 3160-3 (November 1983) (formerly 9-331C)

TIGHT HOLE CONFIDENTIAL

SUBMIT IN TRIPLICATE* (Other Instruct' οn reverse sid

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

UN..ED STATES DEPARTMENT OF THE INTERIOR

5. LEAS	E DES	IGNATION	AND	BERIAL	No.	
1171		0.40				

BUREAU OF LAND MANAGEMENT						UTU-65949
APPLICATION	Y FOR PERMIT T	O DRILL, [DEEPEN	, OR PLUG E	BACK_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
la. TYPE OF WORK DRI	LL XX	DEEPEN [PLUG BA	1	N/A 7. UNIT AGREEMENT NAME N/A
b. TYPE OF WELL			RINGI	E (77) MULTIF	LE 🗀	S. FARM OR LEASE NAME
OIL GA		albed Meth	anezone	AA zone		
NAME OF OPERATOR	214/750-3800			Expressway,	#1000	Federal Federal
PG & E Resoure	ces Company	Dallas, T	X 752	06		9. WELL NO.
3. ADDRESS OF OPERATOR	303/452-8888	13585 Jac	kson D	rive		#16-14
Permitco Inc.	- Agent	Denver, C	0 802	41012 (2121)		10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (R.	eport location clearly and	in accordance wit	h any Stat	e requirements		,
At surface	1124' FSI	_ and 964'	FEL		100 S. Care.	All. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zon	SE SE Sec	c. 14		007 0 2	1992	
At proposed prod. 200	43-00	7-3017	∢	00,02	1772	Sec. 14, T12S - R10E
4 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*						12. COUNTY OR PARISH 13. STATE
15 miles nort	h of Price, Utal	า		MOSSIVIC	Ur.	Carbon Utah
15. DISTANCE FROM PROPU	9ED*		16. NO. O	F ACRES IN DECEME		uio werr
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	124'	2	560	10 11	160
18. DISTANCE FROM PROP	OSED LOCATION®		19. РВОРО	SED DEPTH	20. ROTA	ET OR CABLE TOOLS
TO NEAREST WELL, D. OR APPLIED FOR, ON TH	RILLING, COMPLETED, IS LEASE, FT. approx	x. 2600'	4	360'		Rotary
21. ELEVATIONS (Show who			<u> </u>		· · · · · · · · · · · · · · · · · · ·	22. APPROX. DATE WORK WILL START
7651' GR						Immediately upon approval
23.	P	ROPOSED CASI	G AND C	EMENTING PROGR	AM	of this application.
	1				1	
SIZE OF HOLE	BIZE OF CASING	WEIGHT PER P	-	SETTING DEPTH		QUANTITY OF CEMENT
12-1/4"	<u>8-5/8"</u>	24#		500 '		x or suffic to circ to surf
7-7/8"	5-1/2"	17#		4360'		x or suffic to cover zones
•			ł		of in	terest.

PG & E Resources Company proposes to drill a well to 4360' to test the Blackhawk and Star Point Coals for coalbed methane. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

Please be advised that PG & E Resources Company is considered to be the Operator of the above mentioned well. PG & E Resources Company agress to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Bond coverage for this well is provided by Bond No. U-187011. The principal is PG & E Resources Company via surety consent as provided for in 43 CFR 3104.2.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

BIGNED Suise	Consultant for PG & E Resources Company	B/25/92
(This space for Federal or State office use)	APPROVAL DATE	
APPROVED BY	Assistant District Manager	DATE
EI ADING OR VENTING OF	as dan see	e of⊈e

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A Dated 1/1/80

*See Instructions On Reverse Side

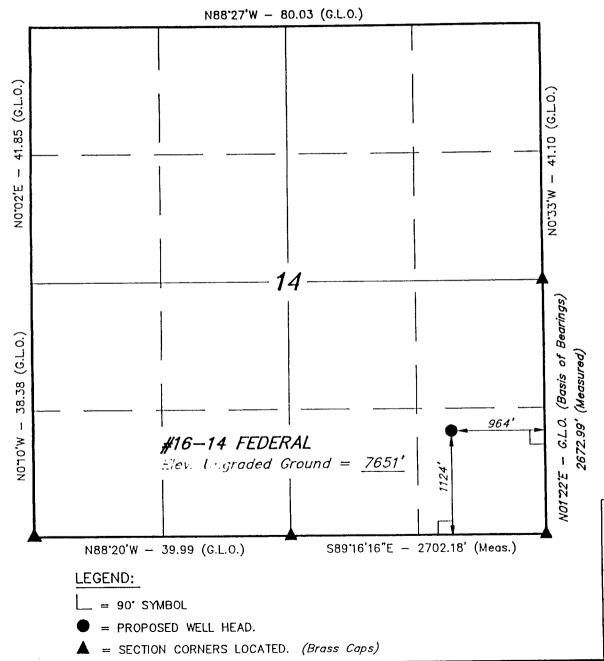
Form CGC-1a

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

(Other instructions on reverse side)

DIVISION OF OIL, GAS, AND MINING	5. Lease Designation and Serial No.
DIVISION OF OIL, GAS, AND MINING	UTU-65949
	6. If Indian, Allottee or Tribe Name
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK	- N/A
DRILL Type of Work DRILL DEEPEN DEEPEN PLUG BACK	7. Unit Agreement Name
b. Type of Well	N/A 8. Farm or Lease Name
Oii Gas Coalbed Methane Single W Multiple	
Weil Well Other Cod Hed Methans Zone 2014/750-3800 6688 N. Central Expressway, #10	00 Federal
PG & E Resources Company Dallas, TX 75206	
3. Address of Operator 303/452-8888 13585 Jackson Drive	#16-14
Permitco Inc Agent Denver, CO 80241 1. Location of Well (Report location clearly and in accordance with any State requirements)	=
At surface	11. Sec., T., R., M., or Blk. and Survey or Area
At proposed prod. zone SE SE Sec. 14 CCT 0 2 1992	Sec. 14, T12S - R10E
14. Distance in miles and direction from nearest town or post office*	12. County or Parrish 13. State
15 miles north of Price, Utah DIVISION OF	Carbon Utah
15. Distance from proposed*	of acres assigned this well
property or lease line, ft. 1124! 2560	160
Is. Distance from proposed location* 19. Proposed depth 20. Rot	ary or cable tools
to nearest well, drilling, completed, or applied for, on this lease, ft. approx. 2600' 4360'	Rotary
21. Elevations (Show whether DF, RT, GR, etc.)	22. Approx. date work will start*
7651' GR	Immediately upon approva
23. PROPOSED CASING AND CEMENTING PROGRAM	of this application.
Size of Hole Size of Casing Weight per Foot Setting Depth	Quantity of Cement
	sx or suffic to circ to surf.
7-7/8" 5-1/2" 17# 4360' 405	sx or suffic to cover zones interest.
PG & E Resources Company proposes to drill a well to 4360' Starpoint Coals for coalbed methane. If productive, casing will completed. If dry, the well will be plugged and abandoned as perequirements.	be run and the well
See Onshore Order No. 1 attached.	
Bond coverage for this well is provided under Bond No. 8063-38-0	7 and 8057-26-00.
This location was staked at non-standard footages due to topogra Company is the lease holder of all lands within a 1/4 mile radiu Therefore, we request administrative approval to an exception to	s of the proposed location.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on a ductive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and mer preventer program, if any. Consultant for	present productive zone and proposed new pro- asured and true vertical depths. Give blowout
Signed Title PG & E Resources Com	pany Date 8/25/92
(This space for Federal or State office use)	
Permit No	
Approved by Title	Date

T12S, R10E, S.L.B.&M.

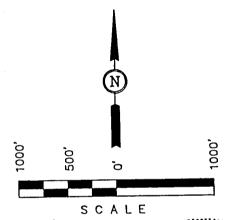


PG&E RESOURCES COMPANY

Well location, #16-14 FEDERAL, located as shown in the SE 1/4 SE 1/4 of Section 14, T12S, R10E, S.L.B.&M. Carbon County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT A RIDGE TOP LOCATED IN THE NW 1/4 OF SECTION 23, T12S, R10E, S.L.B.&M. TAKEN FROM THE MATTS SUMMIT QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 8003 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER SUPERVISION AND THAT THE SAME ARE TRUE AND BEST OF MY KNOWLEDGE AND BELIEF

> REGISTERED LAND SURVEYOR REGISTRATION NO. 5709.

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: DATE DRAWN: 7-20-92 7-23-92						
PARTY G.S. R.A. J.L.G.	REFERENCES G.L.O. PLAT						
WEATHER	FILE PG&E RESOURCES						
нот							

PG&E Resources Co. Federal 16-14 Lease U-65949 SESE Section 14, T.12S., R.10E. Carbon County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Meridian Oil, Inc is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by WY-2554 (Principal - PG&E Resources Co.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

te Production of the

- 1. There will be no deviation from the proposed drilling program without prior approval from the Assistant District Manager. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.
- 2. Daily drilling and completion progress reports shall be submitted to the District office on a weekly basis.
- 3. Due to potential for fresh water contamination, chromates are banned from Federal leases.
- 4. Surface casing shall be set into a geologically competent formation at or near 500 feet.

CONDITIONS OF APPROVAL

- 1. Existing roads and trails will be upgraded only to allow for adequate drainage measures. Any damage caused to roads during the project will be repaired.
- 2. Prior to construction of the new access road, an on-site analysis will be conducted to flag the exact route and establish design criteria. The route will be located as identified under proposed action in the EA:
- 3. Design criteria will be established to meet requirements of BLM's class III road system. Any road will have a maximum travel surface of 18 feet. Total disturbed width will be limited to 25 feet.
- 4. Dust control on all portions of the route will be required during project construction and during well drilling and may be necessary later if the project reaches economic production.
- 5. During inclement weather when activity could result in deep rutting of the roads (6 inches or more), or excessive disturbance of the right-of-way, a stop work order may be verbally issued by the Area Manager with a follow-up written order. An authorization to resume work will be required.
- 6. Flow measurements are to be taken at the head of each produced water discharge line and at each junction and/or discharge point, whether for surface or underground discharge. These will be recorded every 72 hours or more often when-necessary, and this data summarized and reported monthly to BLM-PRRA. Any incidence of flow data discrepancy is to be reported to the State Division of Environmental Health and the Price River Resource Area within 48 hours, and resolved within 12 hours of discovery.
- 7. Summarized results of all analyses of produced water will be sent to the Price River Resource Area, preferably on a monthly basis initially. This is to include baseline data already gathered.
- 8. Flams will be formulated for long term monitoring of aquifers and springs in the area of proposed development to assess any cumulative impacts that may trigger the need for an Environmental Impact Statement.
- 9. The dist contractor will be provided with an approved copy of the surface use plan.

CONDITIONS OF APPROVAL

Original 13 COA's are all carried forward into this Addendum.

Applicable Wildlife COA's from EA Ut-066-91-21:

- 1. In order to protect sage grouse nesting/brood rearing, wintering mule deer and elk: exploration, drilling and other development activity will be allowed only during the period from 7-1 through 11-1.
- 2. No surface occupancy or other surface disturbance within 330 feet of the center line of perennial streams or within 660 feet of springs.
- 3. Participate in development and implementation of an offsite mitigation plan to minimize long term impacts to wildlife.

(Added to original COA's in EA Ut-066-91-21:
PG&ER will enter into a Cooperative Agreement with the BLM and the Utah
Division of Wildlife Resources to participate in a mitigation fund set
up to complete wildlife habitat enhancement projects to compensate for
project related wildlife impacts.)

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

<u>Building Location</u>- Contact the Resource Area, Natural Resource Protection Specialist at lease 48 hours prior to commencing construction of location.

<u>Spud</u>- The spud date will be reported to the Resource Area Office 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

<u>Daily Drilling Reports</u>- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the District Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

<u>Sundry Notices</u>- There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

<u>Drilling Suspensions</u>- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

<u>Undesirable Events</u>- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the Resource Area in accordance with requirements of NTL-3A.

<u>Cultural Resources</u>- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

<u>First Production</u>- Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled as soon as production testing begins and hydrocarbons reach the surface. This conference should be coordinated through the Resource Area Office.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings and /or samples) will be submitted when requested by the Assistant District Manager.

<u>Venting/Flaring of Gas- NTL-4A</u> allows venting/flaring of gas during the initial well evaluation period not to exceed 30 days or 50 MMcf. Venting/flaring beyond the initial test period threshold must be approved by the District Office.

<u>Produced Water</u>- Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the Assistant District Manager for approval pursuant to NTL-2B.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Assistant District Manager for off-lease measurement, off-lease storage or commingling (either down-hole or at the surface).

<u>Plugging and Abandonment</u>- If the well is completed as a dry hole, plugging instructions must be obtained from the BLM, Moab District Office prior to initiating plugging operations. Table 1 of this document provides the after-hours phone numbers of personnel who are authorized to give plugging instructions.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Don Stephens, Dean Nyffeler or Mike Kaminski of the Price River Resource Area in Price, Utah, at (801) 637-4584 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

50 feet prior to reaching surface and intermediate casing depths;

3 hours prior to testing BOPE;

If the person at the above number cannot be reached, notify the Moab District Office at (801) 259-6111. If unsuccessful, notify one of the people listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Dale Manchester, Petroleum Engineer Office: (801) 259-6111

Home: (801) 259-6239

Eric Jones, Petroleum Engineer Office: (801) 259-6111

Home: (801) 259-2214

If unable to reach the above individuals, please call:

Lynn Jackson, Chief, Branch of Fluid Minerals

Office: (801) 259-6111

Home: (801) 259-7990

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: PG & E	43-00	7-30174
WELL NAME: FEDERAL		· · · · · · · · · · · · · · · · · · ·
Section 14 Township 12S		
Drilling Contractor		
Rig #		
SPUDDED: Date 10/6/92	-	and the state of t
SPUDDED: Date 10/6/92 Time		
How DRY HOLE	-	
Drilling will commence 10/12/	92	_
Reported by RICHARD MILLER		
Telephone #1-637-1835		
		_
Date10/8/92	SIGNED ,TI	r.m

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR PG&E Resources Company

OPERATOR ACCT. NO. N 0595

ADDRESS 6688 N. Central Expressway

Dallas, TX 75206-3922

ACTION **CURRENT** NEW API NUMBER WELL NAME WELL LOCATION SPUD **EFFECTIVE** CODE ENTITY NO. ENTITY NO. 00 SC RG COUNTY DATE DATE 11435 43-007-30174 A Federal #16-14 SE SE 14 10E 12S Carbon 10/13/92 10/13/92 Entity added 10-28-92 for WELL 1 COMMENTS: PG&E Resources spud the above well on 10/13/92 at 5:30 p.m. WELL 2 COMMENTS: WELL 3 COMMENTS: WELL 4 COMMENTS: WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)

A - Establish new entity for new well (single well only)

B - Add new well to existing entity (group or unit well)

C - Re-assign well from one existing entity to another existing entity

D - Re-assign well from one existing entity to a new entity

E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

GGT 2 6 1992

DIVISION OF OIL GAS & MINING Pogulatory Af

Regulatory Affairs
Title

10/22/92

Phone No. <u>(214)</u> 750-3958

(3/89)

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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OFIL'U	MUUU			ſ

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

		Expires. M.	wi Cil	21, 17	,,
5 .	Lease	Designation	and	Serial	No.

UTU-65949

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well	N/A
Oil Gas Well Other Coalbed Methane	
2. Name of Operator	8. Well Name and No.
•	Federal #16-14
PG&E Resources Company	9. API Well No.
3. Address and Telephone No.	
6688 N. Central Expressway, Dallas, Texas 75206-3922	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	To. Tield and Pool, of Exploratory Area
1124' FSL & 964' FEL	
- 	11. County or Parish, State
SE SE Sec. 14, T12S-R10E	• • • • • • • • • • • • • • • • • • • •
	Carbon, Utah
CHECK APPROPRIATE POWER TO MICHOLINE	

12.	CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTION
	Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Spud/Set Surface Casin Dispose Water Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water
		(Note: Report results of multiple completion on Well

PG&E Resources Company spud the above referenced well on 10/13/92 at 5:30 p.m. On 10/15/92 ran 8 5/8" casing to 480.

NGV 0 9 1992

DIVISION OF Oil GAS & MINING

14. I hereby certify that the foregoing is true and correct		
Signed Class Hurst Ava Hurst	Production Administrator Tide Regulatory Affairs	Date 10/16/92
(This space for Federal or State office use)	Propoh of FL (110)	
Approved by Conditions of approval, if any:	Branch of Fluid Minerals Moab District	OCT 2 0 1992

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*



April 20, 1993

DECENVED

APR 2 1 1993

DIVISION OF OIL GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attention: Mr. Frank Mathews

RE: Castlegate CBM Project

Carbon County, Utah

Gentlemen:

Attached is an original and one (1) copy of Form 9 "Sundry Notices and Reports on Wells," completion procedure and a schedule of the wells for the referenced project.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours,

Cindy Keister

Regulatory Analyst

CRK/ck

Attachments

Name & Signature

(State Use Only)

STA OF UTAH

DEPARTMENT OF NATURAL RESOURCE	- · -	6. Lease Designation and Serial Number
DIVISION OF OIL, GAS AND MINI	NG	See Attached Schedule "A"
		7. Indian Allottee or Tribe Name
SUNDRY NOTICES AND REPORTS (NA
On not use this form for proposals to drift new wells, deepen existing wells, or to re Use APPLICATION FOR PERSIT—for such propo	enter prugged and shandoned wells.	8. Unit or Communitization Agreement
		NA NA
1. Type of Well		9. Well Name and Number
Other (specify)		See Attached Schedule "A"
2. Name of Operator		10. API Well Number
PG&E Resources Company		See Attached Schedule "A"
3. Address of Operator	4. Telephone Number	11. Field and Pool, or Wildcat
6688 N. Central Expwy., Dallas, TX 75206	214/750-3800	Wildcat
Footage : See Attached Schedule "A"	County	4, T125, R10E : Carbon
CHECK ADDRODDIATE BOYES TO INDICATE N	ATURE OF MOTION DEPA	: UTAH
CHECK APPROPRIATE BOXES TO INDICATE N. NOTICE OF INTENT	ATORE OF NOTICE, HEPO	HI, OH OTHER DATA
(Submit in Duplicate)	(Submit	QUENT REPORT Original Form Only)
Abandonment New Construction	Abandonment *	New Construction
Casing Repair Pull or Alter Casing	Casing Repair	Pull or Alter Casing
Change of Plans Recompletion	Change of Plans	Shoot or Acidize
Conversion to Injection Shoot or Acidize	Conversion to injection	☐ Vent or Flare
Fracture Treat Vent or Flare	Fracture Treat	☐ Water Shut-Off
Multiple Completion Water Shut-Off KX Other Complete Wells	Other	
Other Complete Wells	Date of Work Completion	
Approximate Date Work Will Start05/01/93		
	Report results of Multiple Completi	ons and Recompletions to different reservoirs
	on WELL COMPLETION OR RECO Must be accompanied by a cem	MPLETION AND LOG form.
13 DESCRIPE PRODOCED OR COURT ETER OPERATIONS (Co. d		
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertiniocations and measured and true vertical depths for all markers and zones pertinions.)	nent details, and give pertinent dates. Therefore the work.)	If well is directionally drilled, give subsurface
	•	
PG&E Resources Company requests approval for	the etternal Courts	
wells listed on Schedule "A". Daily reports	will be furnished who	on Procedure for the
commence.	will be idilished whe	n completion operations
	7	DECRIVATO
		RECOUNT OF
	Jackbur !!	APR 2 1 1993
	, 9 / NW	
1 12	1 MARIE	DIVISIONOF
4'im		O'L GAS & MINING
	1	Control of the state of the sta
	/	
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the thereby a city the thirty to the time		

Cindy Keister

Title Regulatory Analyst Date 04/20/93

CASTLEGATE

SCHEDULE "A"

	LEASE			<u> </u>	<u> </u>	T		
WELL	SERIAL	API						
NAME	NO.	NUMBER	Location	Qtr Sec.	Sec	Man aba		
State 2-16	UTU-65949	43-007-30133	780' FNL & 1971' FEL	NE NE	16	Twnshp	Range	County
Federal 4-13	UTU-65949	43-007-30126	1174' FNL & 1168' FWL	NM NM	 	128	10E	Carbon
Federal 4-14	UTU-65949	43-007-30138	660' FNL & 450' FWL		13	128	10E	Carbon
Jensen 5-10	433396	43-007-30162	2065' FNL & 570' FWL		15	128	10E	Carbon
Jensen 7-15	FEE	43-007-30165	1650' FNL & 1650' FEL		10	128	10E	Carbon
Jensen 9-10	433396	43-007-30159	2559' FSL & 909' FEL	SW NE	15	128	102	Carbon
State 9-16	UTU-65949	43-007-30132	1993' FSL & 702' FEL	NE SE	10	128	10E	Carbon
Shimmin Trust 10-11	FEE	43-007-30167	1999' FSL & 2006' FEL	NE SE	16	128	10E	Carbon
Jensen 11-10	433396	43-007-30164	1735' FWL & 1461' FSL	NW SE	11	125	10E	Carbon
Shimmin Trust 11-11	FEE	43-007-30166	2313' FSL & 1501' FWL	NE SW	10	12S	10E	Carbon
Jensen 11-15	FEE	43-007-30175	1896' FSL & 1709' FWL		11	128	10E	Carbon
Shimmin Trust 12-12	FEE	43-007-30168	2340' FSL & 1033' FWL	NE SW	15	128	102	Carbon
Shimmin Trust 14-12	FEE	43-007-30169	721' FSL 6 2047' FWL	NW SW	12	125	10E	Carbon
Federal 14-13	UTU-65949	43-007-30177	914' FSL & 1677' FWL	SE SW	12	128	10E	Carbon
Federal 14-14	UTU-65949	43-007-30173	990' FSL & 1649' FWL	SE SW	13	128	10E	Carbon
Jensen 16-9	FEE	43-007-30163	THE PART OF THE	SE SW	14	128	10E	Carbon
Jensen 16-10	FEE	43-007-30161	2201	SE SE	9	128	10E	Carbon
Pederal 16-14	UTU-65949	43-007-30174		SE SE	10	128	10E	Carbon
ederal 16-15	UTU-65949	43-007-30176		SE SE	14	128	10E	Carbon
	1	42-001-301/6	1091' FSL & 1043' FEL	SE SE	15	128	10E	Carbon

APRIL 20, 1993

CASTLEGATE PROJECT TYPICAL PRODUCING WELL COMPLETION PROCEDURE (5-1/2", 17#, N-80 CSG)

- 1. MIRU WELL SERVICE UNIT.
- 2. GIH W/RB ON 2-7/8" TBG & D.O. DV TOOL.
- CIRC HOLE CLEAN TEST CSG TO 5000 PSI.
- 4. RUN CBL (IF REQUIRED).
- 5. PERFORATE LOWER STAR POINT COAL SECTION (TYPICALLY AROUND 4750' FOR ABOUT 60' OF GROSS INTERVAL, APPROX 20-30 HOLES).
- 6. TREAT LOWER COAL SEAM PERFS DOWN CSG W/1500 GALS 15% FE ACID W/ BALL SEALERS (TO OPEN ALL PERFS).
- 7. TREAT LOWER COAL SEAM PERFS DOWN CSG W/APPROX 60,000 GALS OF CMHEC CLEAN GEL SYSTEM W/90,000# 20/40 SD & 35,000# OF 100 MESH SD. EXPECT TO TREAT @ 60 BPM X 6000 PSI.
- 8. FORCE CLOSE FRAC.
- 9. FLOWBACK LOAD WATER.
- 10. SET RBP ON WL OVER LOWER COAL SEAM INTERVAL.
- 11. PERFORATE & TREAT UPPER COAL SEAM INTERVAL (TYPICALLY 4450'+/- SPREAD OVER 200'-300',35 TOTAL HOLES).
- 12. DO BD ACID JOB AND FRAC AS BEFORE ON THE LOWER INTERVAL.
- 13. FORCE CLOSE FRACTURE.
- 14. FLOWBACK FRAC LOAD UP THE CSG.
- 15. RETRIEVE RBP W/TBG.
- 16. RUN MOYNO PRODUCTION PUMPING EQUIPMENT ON 2-7/8" N-80 TBG.
- 17. COMMENCE DE-WATERING OPERATIONS.

WELL HISTORY

16-14 Federal Castlegate Area Carbon County, Utah

09-30-92	Rec'd approved APD, began bldg road & loc.
10-01-92	Bldg road & loc.
10-02-92	Bldg road & reserve pit.
10-03-92	Bldg location & road.
10-04-92	Bldg location & road.
10-05-92	MI & drld conductor hole to 30'. Ran 14" conductor.
10-06-92	Cmtd conductor to 39' GL (corrected depth), drl RH & MH.
10-07-92 to 10-10-92	WO Adcor Rig #36.
10-11-92	MI Adcor Rig #36.
10-12-92	MIRU Adcor Rig #36.
10-13-92	RU Adcor Rig #36.
10-14-92	Drlg 156', day 1, 117'/11 hrs, MW 8.3., Visc 26, WL N/C. RU & spud @ 5:30pm 10-13-92. CC \$68,197.
10-15-92	Depth 480', run 8-5/8" csg, day 2, 324'/21 hrs, MW 8.4, Visc 27, WL N/C. Drl to 480', C&C, TOH, rng 8-5/8" surf csg, srvy .25° @ 253'. CC \$74,601.
10-16-92 1500#, TIH	Drlg 570', day 3, 96'/2.5 hrs, MW 8.4, Visc 27, WL N/C. Set 8-5/8" @ 474' KB & cmtd w/ 350 sx class G. Circ cmt to surf, NU & tst BOPE, tst csg to & drl out cmt. CC \$92,749.10-17-92 Drlg 1348', day 4, 778'/21 hrs, MW 8.4, Visc 28, WL

WELL HISTORY

16-14 Federal Castlegate Area Carbon County, Utah

	N/C. Trip for BHA. Srvy 0.5 @ 550' & 1159'.
10-18-92	Drlg 2272', day 5, 924'/22.5 hrs, MW 8.4, Visc 29, WL N/C. Srvy 1° @ 1606' & 1.5° @ 2100'.
10-19-92	Drlg 3075', day 6, 803'/23.5 hrs, MW 8.4, Visc 29, WL N/C. Srvy 3° @ 2597'. CC \$115,605.
10-20-92	Drlg 3464', day 7, 389'/18.5 hrs, MW 8.6, Visc 30, WL 21.6. Trip for bit, srvy 3.75° @ 3151'. CC \$125,249.
10-21-92	Drlg 3900', day 8, 436'/23.5 hrs, MW 8.9, Visc 29, WL 16.1. Srvy 5.25° @ 3646'. CC \$130,755.

September 17, 1993

Central Expressway, Suite 1000 fexas 75206-3922

Telephone 214/750-3800 FAX 214/750-3883



DIVISION OF OIL, GAS & MINING



Bureau of Land Management Vernal District Office 170 South 500 East Vernal, UT 84078

> Federal 16-14 RE:

Section 14-T12S-R10E Carbon County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-4 "Well Completion or Recompletion Report and Log" for the referenced well.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Cindy R. Keister

Sr. Regulatory Analyst

CRK/ck

Attachments

Utah Department of Natural Resources CC:

Regulatory File Central Files

Form 3160-4 (November 1983) (formerly 9-330)

UNITED STATES sur DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side) Form approved.

Budget Bureau No. 1004-0137

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

everse side) UTU-65949

WELL	COM	IPLETIO	N OR I	RECOM	PLET	ION F		R 40	3 2 2 .	*	NA	' INDIAN,	ALLO	ttee or tribe name
1a. TYPE (OIL	GAS [DRY	Other	granding granding	46亿世			IIT AGREE	MENT I	NAME:
NEW 2	\Box	WORK OVER	DEEP-	PLUG BACK		RESVR	Other CFD	7	r 1000	4425134	I — .	RM OR LE	ASE N	AME
2. NAME OF							OLI	ζ.,	0 1773		Fede			
PG&E Reso								* 5 5 5 7	221			LL NO.		
3. ADDRESS				D. II T	V 7500				ON OF	_	16-14			
6688 N. Ce							<u>OIL., GA</u>	<u>15 {</u>	<u>& MININ(</u>				POOL,	OR WILDCAT
4. LOCATION At surface		(Report location cl	•				E /A				Wild		-	OR BLOCK AND SURVEY
				FSL & 964		3E/4 3	C/4					AREA	,,	K DOOK ALD DON'E
		erval reported	DETON	-	ame						Secti	on 14,	T125	S-R10E
At total	depth			Sa	ame									
					14. PE	rmit no. 007-30	174	DAT	ne issued 09/28/92		12. CO	UNTY OR RISH Cal	bon	13. STATE Utah
15. DATE SPUDI		. DATE T.D. R		17. DATE		. •	i) 16.	ELEV	Alions (DE, R		GR, ETC	.) °	19. E	elev. Carengerad
10/13/9	2	10/22	/92		08/28	/93			7672	RKB				
20. TOTAL DEPT 417	•	TVD 21. PL	ug, back 1 410	в., но є т 9'		IF MULTII HOW MANY	PLE COMPL.,		DRILLED		ROT	X	s	CABLE TOOLS
24. PRODUCING	INTERV	L(S), OF THIS	COMPLETIC	NTOP, BOT	TOM, NAME	CIAD AND			. `					WAS DIRECTIONAL SURVEY MADE
3502' - 384				3969' -	4029'	Kenilw	orth (MV	(OCL)					No
26. TYPE ELECT	4					., , ,	-92					2	7. WAS	WELL CORED
Spectral De	ensity/	Spectral D												No
28. CASING SI	ZE	WEIGHT, LE		ASING RE			e il strin E size	gs .	set in wel	I) Enting 1	RECORD			AMOUNT PULLED
8	3-5/8"		24#	- A	431'		12-1/4	" 35	0sx Class '	'G" w/	additiv	/es		
	5-1/2"		17#		4172'				5sx 50/50	•				
				DV Tool @	03030'			30	Osx Class '	'G" w/	additiv	/es +		
								50	sx Class "G	" Nea	<u> </u>			
29.	 			ER RECORD					30.	T		RECORI	<u> </u>	
SIZE		TOP (MD)	ВОТТО	M (MD)	SACKS CE	MENT	SCREEN (M	D)		. (01)	DEPIR	SET (MD)		PACKER SET (MD)
									23	3/8"		34	52'	NA NA
31. PERFORATIO	N RECOR	D (Interval size a	nd number)				I		ACTO					
			•				32. DEPTH	INTE	ACID, S	SHOT,			•	EMENT ATERIAL USED
3502' - 384	ي. د	().45"	3!) Holes		3502' - 3	842	1	2000	gals	7-1/2%	HC	L + 55000 gals
3969' - 402).45"		6 Holes									50# 100 mesh
	_	•		•			00001 4	000	,		71800 attach	0# 16/	30 s	d
33.*						PRODUC	<u> 3969' - 4</u> TION	UZY	<u></u>	1566.	auacn	80	~~~~	
DATE FIRST PRO	DUCTION	PRODU	CTION METH	IOD (Flowing, ga	s lift, pumpi	ng-size and	type of pump)					WELL ST	ATUS	(Producing or
08/2	28/93				<u>Model :</u>	200 Pro	gressive	Cav	ity Pump			<u> </u>	:-in)	Shut-In
DATE OF TEST 08/30/9		HOURS TESTED	CH	NA		PERIOD	OILBBL.		GASMCT.	3	WATER-	-BBL. 992		CAS-OIL RATIO
PLOW. TUBING I	PRESS.	CASING PRESSU	•	LCULATED HOUR RATE	OIL	BBL.	GAS1		28	WATERI	992	01	L GRA	VITY-API (CORR.)
34. DISPOSITIO	ON OF G	S (Sold, use	for fuel	, vented, et	. .)						I	TEST WIT	nes sei	BY
Well currer	itly sh	ut-in waitin	g on cor	npletion o	of centra	al proc	essing fac	ility	'.		}	Mike N	lcMi	can
35. LIST OF A			1			·								
36. I hereby o	extify	that the fore	going and	attached in	Formation	is comp	lete and cor	rrect	as determine	d from a	ll avai	lable re	cords	
SIGNED	را	0i/14 /	<u> </u>	inle	_TITLE	S	r. Regula	tory	/ Analyst		DA	TE	0	9/16/1993

FORMATION TOP SOCIETION DESCRIPTION CONTENTS ETC. MARITIN GRAS. MARITING GRAS. MARITI	37. STM-GANY OF POROUS EC drill-stem, tests, 1 recoveries):	MES: (Show all improblements)	portant zones of portant tested, cushi	SUBGRY OF PORCUS ZONES: (Show all important mones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, quahlon used, time tool open, flowing and shut-in pressures, and recoveries):	38. Gi	GEOLOGIC MARKERS	
35-77 38-41 Mahuril gas. 38-67 Adorf Nahuril gas. Price River Sandstone Castingate Sandstone Renhworth Sandstone Aberdeen Sandstone Aberdeen Sandstone	FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		TC	P
3942 4667 Natural gas.	Blackhawk	3170	3841'	Natural gas.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
	Kenilworth	3842		Natural gas.	Price River Sandstone		2400
					Castlegate Sandstone		2820
			·	ţ	Blackhawk Formation		3170
					Keniworth Sandstone		3842
					Aberdeen Sandstone		4068

FORM 3160-4 FEDERAL 16-14 Page 2

32. Depth Interval (MD)

Amount and Kind of Material Used

3969' - 4029'

2500 gals 7.5% FE Acid + 25000 gals XL CMHEC gel + 37000# 100 mesh sd + 69000# 16/30 sd + 20000# 16/30 curable resin coated sd.



December 21, 1993

C30 27 893

Bureau of Land Management Moab District Office P. O. Box 970. 82 E. Dogwood Moab, UT 84532

RE: Federal 4-13, 4-15, 7-9,

14-13, 14-14, 16-14 & 16-15 Castlegate CBM Project Sundries For NTL-2B Carbon County, Utah

Gentlemen:

Attached is an original and two (2) copies of Form 3160-5 "Sundry Notices and Reports on Wells," for the referenced wells.

If you have any questions or need further information, please contact the undersigned at 214/706-3640.

Very truly yours

Cindy R. Keister

Sr. Regulatory Analyst

CRK/ck

Attachments

cc: Utah Division of Oil, Gas & Mining

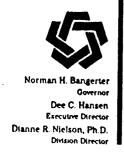
Central File Regulatory File Form 3160-5 (June 1290)

U TED STATES DEPARTM. . I OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

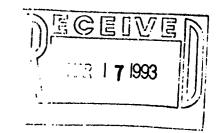
FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

SUNDRY NOTICES AND F		5. Lease Designation and Serial No.
	1 -	UTU-65949
Do not use this form for proposals to drill or to	6. If Indian, Allottee or Tribe Name	
Use "APPLICATION FOR PERM	IT - for such proposals	NA
SUBMIT IN TRI	PLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well		NA NA
Oil Gas Well Other	CEC 2.7 (993	8. Well Name and No.
2. Name of Operator	0.00 9 / 1993	
PG&E Resources Company	Statement Of	Federal 16-14 9. API Well No.
3. Address and Telephone No.		
		43-007-30174
6688 N. Central Expwy., Suite 1000, Dallas, TX 7520 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	6 214/750-3800	10. Field and Pool, or Exploratory Area
		Wildcat
1124' FSL & 964' FEL		11. County or Parish, State
SE/4 SE/4 Sec. 14-T12S-R10E		Carbon County, Utah
12. CHECK APPROPRIATE BOX(s) T	O INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF AC	TION
x Notice of Intent	Abandonment	Charge of Plane
C.L. In	Recompletion	Change of Plans
Subsequent Report	Plugging Back	New Construction
Final Abandonment		Non-Routine Fracturing
	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	X Other NTL-2B	Dispose Water
13. Describe Proposed on Complete IO		(Note: Report results of multiple completion on We Completion or Recompletion Report and Log from
 Describe Proposed or Completed Operations (Clearly state all pertin directionally drilled, give subsurface locations and measured a 	nent details, and give pertinent dates, including estimated dat	
		•
PG&E Resources Company requests approval to dispose located in Section 10 and 11 of T12S P10F. Cortex C	e of produced water from the referenced well i	nto off-lease injection well(a)
Total and True True True. Carbon Co	IIIIIV LITAN The produced water will flow via	a
processing racinty (Crr) where it will be consolidated t	VIII Other produced water from the field prior	المام والتاليلات سلسمة سمامة
disposal into one of the four injection wells. A copy of	the State of Utah, UIC Permit is included for w	our review
	,	our review.
//		
4. I hereby certify that the foregoing is true and correct		
	itle Sr. Regulatory Analyst	
(This space for Federal or State office use)	nie	Date12/20/1993
(space for federal of State office use)		
Approved by Ti	tle	Date
Conditions of approval, if any:		Date



Stat of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340



March 12, 1993

PG&E Resources Company 6688 North Central Expressway Dallas Texas 75206

Gentlemen:

Re: Conversion of the Jensen 16-10, Jensen 9-10, Shimmin Trust 11-11, and Shimmin Trust 10-11 wells located in Sections 10 and 11, Township 12 South, Range 10 East, Carbon County, Utah, to Water Disposal Wells

In accordance with Utah Admin. R. 649-5-3-3, administrative approval for conversion of the referenced wells to Class II injection wells is granted.

The following actions are necessary to fully comply with this approval:

- 1. Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.
- 2. Conformance with all conditions of the submitted applications.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Sincerely,

Associate Director, Oil and Gas

cc: BLM, Price R.J. Firth

WUI229

Form 3160-5 (June 1990)

"NITED STATES ENT OF THE INTERIOR DEPAR.

BUREAU OF LAND MANAGEMENT

FORM APPROVED			
Budget Bureau No. 1004-0135			
Expires: March 31, 1993			

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES	AND	REPORTS	ON WELLS
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Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

UTU-65949

Use "APPLICATION FOR PERM	T - for such proposals	NA
SUBMIT IN TRIF	PLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well	SELVE OF FORM OF SELVED AND SELVED OF	NA NA
— Oil — Gas		8. Well Name and No.
Well X Well Other	The same same same same same same same sam	Federal 16-14
2. Name of Operator		9. API Well No.
PG&E Resources Company		43-007-30174
3. Address and Telephone No.		10. Field and Pool, or Exploratory Area
6688 N. Central Expwy., Suite 1000, Dallas, TX 7520	6 214/750-3800	Wildcat
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. County or Parish, State
1124' FSL & 964' FEL		
SE/4 SE/4 Sec. 14-T12S-R10E	,	Carbon County, Utah
12. CHECK APPROPRIATE BOX(s) T	O INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE (OF ACTION
		Change of Plans
Notice of Intent	Abandonment	New Construction
Subsequent Report	Recompletion	
-	Plugging Back	Non-Routine Fracturing
Final Abandonment	Casing Repair	Water Shut-Off
	Altering Casing	Conversion to Injection
	X Other First Sales	Dispose Water
13. Describe Proposed or Completed Operations (Clearly state all per		(Note: Report results of multiple completion on W Completion or Recompletion Report and Log from
		MAR 2 2 lock
14 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
14. I hereby certify that the foregoint is true and correct	Title Sr. Regulatory Analyst	Date03/14/1994
Signed (May 1) / Jesselle		
(This space for Federal or State office use)		
Approved by	_ Title	Date
Conditions of approval, if any:		
		and the second s
Title 18 U.S.C. Section 1001, makes it a crime for any person knowing	gly and willfully to make to any department or agen	cy of the United States any false, fictitious or frauduler
statements or representations as to any matter within its jurisdiction.		

(5/94)

STAIL OF UTAH		
DIVISION OF OIL, GAS AND MINII	NG	5. Lease Designation and Serial Number
		UTU-65949 6. Indian, Allottee or Tribe Name:
SUNDRY NOTICES AND REPORTS ON	WELLS	5, Indian, Anottee of Tribe Haine.
Do not use this form for proposals to drill new wells, deepen existing wells, or to re		7. Unit Agreement Name:
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form	for such purposes	CA # UTU-73772
Type of Well: OH CASC OTHER: Coalbed Metha	ino	8. Well Name and Number:
. Type of Well: OIL GAS OTHER: COalbed Metha	ine	Federal #16-14
2. Name of Operator		9. API Well Number:
Anadarko Petroleum Corporation		43-007-30174
Address and Telephone Number.		
17001 Northchase Dr., Houston, Texas 77060	(281) 875-1101	Castlegate
4. Location of Well		County: Carbon
Footages: SE SE 1124' FSL & 964' FEL		TIA - L
QQ,Sec., T., R., M.: Sec. 14 T12S-R10E		State: Utan
1. CHECK APPROPRIATE BOXES TO INDICATE NAT	TURE OF NOTICE, REPORT, OR	OTHER DATA
NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUE	NT REPORT nai Form Only)
	☐ Abandon*	New Construction
AA / Notified	Repair Casing	Pull or Alter Casing
Repair Casing Pull or Alter Casing Change of Plans Recomplete	Change of Plans	Perforate
Change of Flatio	Convert to Injection	Vent or Flare
Convert to Injection Perforate Fracture Treat or Acidize Vent or Flare	Fracture Treat or Acidize	Water Shut-Off
Fracture Treat of Actuize		
Multiple Completion Water Shut-On		
Other	Date of work completion	
Approximate date work will startEarly Spring	Report results of Multiple Completions ar COMPLETION OR RECOMPLETION REPORT	nd Recompletions to different reservoirs on WELL AND LOG form.
	* Must be accompanied by a cement verifica	ation report.
DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and vertical depths for all markers and zones pertinent to this work.) Please see attached "Well Diagram" for		
markers.		
	ND)EC	
	MA MA	Y 0 1 1998
	DIV. OF O	IL, GAS & MINING
19.	nad Frazier roduction Engineer	Date 02/17/98
(This space for State use only)	Accei	oted by the State
(This space for state ase only)	-	ah Division of
		ias and Mining
	Date:	5-14-98

(See Instructions on Reverse Side)

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

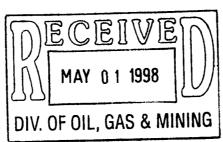
FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

5. Lease Designation and Serial No.

		UTU-65949
SUNDRY NOTICES Do not use this form for proposals to dr Use "APPLICATION FOR	6. If Indian. Allottee or Tribe Name	
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
	l Methane	8. Well Name and No. Federal #16-14
Name of Operator Anadarko Petroleum Corporation Address and Telephone No.	on	9. API Well No. 43-007-30174
17001 Northchase Dr., Houst	on, TX 77060 (281) 875-1101	10. Field and Pool, or Exploratory Area Castlegate
SE SE 1124' FSL & Sec. 14 T12S-R10F	11. County or Parish, State Carbon County, Utah	
	s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
Final Abandonment Notice	Altering Casing Other	Conversion to Injection Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached document for plugging procedures in accordance to plugging guidelines and the "Wellbore Diagram" for all wellbore information and geological markers.



CONTROL THE INTERIOR BUREAU OF LAND MOME	15 117 19 FT 2:31	
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

טוע. טר טו	L, UA	3 & WIIIVING	·-(%)
14. I hereby certify that the foregoing is true and correct Signed May United	Title	Shad Frazier Production Engineer	Date 02/17/98
(This space for Federal or State office use) Approved by Conditions of approval, if any:	Title	Assistant Field Manager, Resource Management CONDITIONS OF APPROVAL	Date 4/22/98 ATTACHED

FORM 9	STATE OF UTAH		Contact Number
DIVISION	OF OIL, GAS AND MINII	NG	5. Lease Designation and Serial Number
	TICES AND REPORTS ON	I WELLS	Indian, Allottee or Tribe Name:
, a distribution	w wells, deepen existing wells, or to r PERMIT TO DRILL OR DEEPEN form	eenter plugged and abandoned wells.	7. Unit Agreement Name:
USB AFFEIGATION			8. Well Name and Number:
1. Type of Well: OIL GAS XX	OTHER: METHANE		Federal 16-14
The type of them. One	110111111		9. API Well Number:
2. Name of Operator			43-007-30174
Anadarko Petroleum Corporat	<u>ion</u>		10. Field and Pool, or Wildcat
3. Address and Telephone Number.			Castlegate Field
17001 Northchase Dr., Houst	on, Texas 77060		000000
4. Location of Well			County: Carbon
Footages: 1124 FSL & S	964' FEL		Sound,
QQ,Sec., T., R., M.: SE SE Sec	. 14-T12S-R10E		0 can
A POPOPOIATE	POYES TO INDICATE NA	TURE OF NOTICE, REPORT, OR	OTHER DATA
11. CHECK APPROPRIATE	ITENT	SUBSEQUEN (Submit Origina	IT REPORT al Form Only)
(Submit in Dupl	icate)		
Abandon	New Construction	XX Abandon*	New Construction
Repair Casing	Pull or Alter Casing	Repair Casing	Pull or Alter Casing
Change of Plans	Recomplete	Change of Plans	Reperforate
Convert to Injection	Reperforate	Convert to Injection	Vent or Flare
Fracture Treat or Acidize	Vent or Flare	Fracture Treat or Acidize	Water Shut-Off
Multiple Completion	Water Shut-Off	Other	
Other		06/	30/98
Other		Date of work completion	
Approximate date work will start Report results of Multiple Completions and Recompletions to different reservoirs of COMPLETION OR RECOMPLETION REPORT AND LOG form.			1 Recompletions to different reservoirs on WELL AND LOG form.
* Must be accompanied by a cement verific			lion report.
	Annual III and detaile at	nd give pertinent dates. If well is directionally drill	led, give subsurface locations and measured and true
 DESCRIBE PROPOSED OR COMPLETED OPERA' vertical depths for all markers and zones perting 	TIONS (Clearly state all pertinent details, at ent to this work.)	id give peralism and a	
SEE ATTACHED W	ELLBORE DIAGRAM AND	DETAILED FIELD REPORT.	
	COLUMN DESIGNATION AT	50' ABOVE TOP PERFORATI	ON. PLUG WAS SET
UNABLE TO SET	LOWER CEMENT FLOG AT	UTAH, DIVISION OF OIL AN	ND GAS PERMISSION.
AS IN AGREEMEN	I WIIII IIII DIIII	•	
•			
	2/		
13. Shad Frazio	Title	Engineer	Date 08/12/98
Name & Signature	Royals Title		
(This space for State use only)			MENTED DE
		1) (NECEIVEIN
			0.0 4000

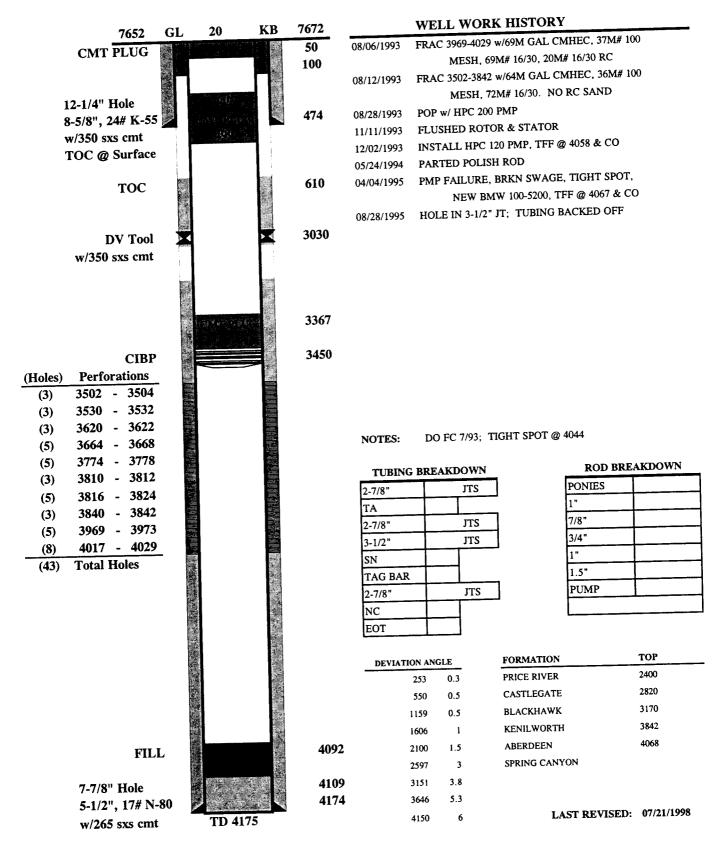
(See Instructions on Reverse Side)

FEDERAL #16-14

SE SE 1124' FSL & 964' FEL: SEC 14 T12S-R10E API NO. 43-007-30174
 SPUD
 RIG OFF

 SURFACE
 10/13/1992
 10/16/1992

 PRODUCTION
 10/17/1992
 10/23/1992





COIL TUBING JOB LOG 4191 JOB TYPE LEASE WELL NO. 402664 PSA Federal 16-14 DESCRIPTION OF JOB RUN TUBING PULL N2 RATE VOLUME on Loc, Rig 24 06:30 Safty Meelting \$ 50 07:00 25T/@ 2000 07:23 Short Fresh Down C.T. - Tay MA 07:35 1.0 Start C. W.T Dans C.T 07:45 10 Start Poz Down C.T. 07:47 1.0 2600 2580 08:10 Start C. W.T. Donas C.T. - (499-449) 08:43 1.0 9.2 08:45 25 900 Start C. W.T Danses C.T. (65'-0') 09:02 C. M.T. Surface, Rig Down papere Bille Topump down Bak Side with C. T. Rig up to Back Side, B. I. H. (85/6/5/2) x09:46 5 Teg up @ 100' 10:07 C. W.T @ Surface, Rig Down 10:30 Move to New Loc Thank You

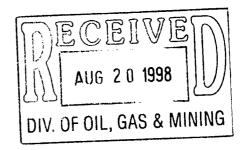
\nadar**k**@

August 13, 1998

State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, Utah 84414-5801

Re:

State Form 9 Castlegate Field Carbon County, Utah



Gentlemen:

Please find enclosed, Sundry Notices and Reports on Wells (Form 9) outlining the plugging and abandoning procedures performed for the following wells:

JENSEN 11-15 & SGW to PA SHIMMIN TRUST 1 FR SGW + & PA .. 4 JENSEN 16-9 () SHIMMIN TRUST 2 ... ' JENSEN 16-10 💯 SHIMMIN TRUST 4 (C. (C. (C. FEDERAL 4-13 É))
SHIMMIN TRUST 5 (C. (C. (C. FEDERAL 4-13 É))
SHIMMIN TRUST 5 (C. (C. (C. FEDERAL 4-13 É)) " SHIMMIN TRUST 10-11 tr WD WTO A FEDERAL 6-8 SHIMMIN TRUST 11-11 Fr Sow to FA FEDERAL 7-9 SHIMMIN TRUST 12-12 " " FEDERAL 14-13 ... SHIMMIN TRUST 14-12 (1 16 FEDERAL 14-14 CC JENSEN 5-10 €r SGW +0 PA FEDERAL 16-14 (ં ૯ 🤼 FEDERAL 16-15 🕡 JENSEN 7-15 ' ٠ (STATE 2-16 ← ~ JENSEN 9-10 1 11 **STATE 9-16** 11 JENSEN 11-10 ; .

Should you have any questions or require additional information, please contact me at (281) 873-1276.

Best regards,

ANADARKO PETROLEUM CORPORATION

A. Rupert

Engineering Technician

Enclosures

CC:

Bureau of Land Management Moab District Office P.O. Box 970

Moab, Utah 84532

Bureau of Land Management Price River Resources Area 900 North, 700 East Price, Utah 84501

GAR SMF

TRC - Well File

CONDITIONS OF APPROVAL

- 1. Notify Don Stephens fo the Price BLM office at (435) 636-3608 at least 24 hours prior to commencing plugging operations.
- 2. All wellbore volume between cement plugs shall be filled with bentonite gel of at least 9 pounds per gallon.
- 3. Upon finishing the plugging procedures, submit a subsequent report of abandonment (sundry notice) which details the work that was done.



Plugging Procedure

Federal #16-14 Sec. 14-T12S-R10E 1124' FSL & 964' FEL Carbon County, Utah AFE: 501501 WI: 100% API # 43-007-30174

Purpose: Plug and Abandon Castlegate field

Surf:

8-5/8", 24# K-55

Prod:

5-1/2", 17# N-80 (Drift = 4.767")

Wireline:

Halliburton, Vernal 801-789-2550

Cementing:

Halliburton, Vernal 801-789-2550

Procedure:

- 1. RDWH, NUBOP, BD casing pressure. MIRUWL. TIH W/ GR/JB to 3502. POH w/ GR/JB and pick up CIBP. Trip in hole and set CIBP @ +/- 3450 (Do not set in collars). RDWL and move to next location.
- 2. MIRU Coiled Tubing equipment and cement unit
- 3. Mix and pump a minimum of 5 sacks class G cement and spot on top of CIBP @ +/- 3450.
- 4. POH to bottom of surface casing @ 474 and spot a 50 ft. plug.
- 5. Pull up hole to within 50 ft of surface and spot 50 ft plug.
- 6. Cut production casing off and mix and pump a 100 ft cement plug between csg and prod csg. NDBOP.
- 7. Reclaim location and install 4 ft. dead man marker with lease name, number, company name, and legal description.

* all displacement fluid will contain non-corrosive fluid.

Prepared:

Approved:

Castelgate plugging.doc

cc:

Steve Pearson

Alan O'Donnel Kendall Madden

Shad Frazier

Tom Rushing

WF - Federal #16-14, Carbon County, Utah

FEDERAL #16-14

SE SE 1124' FSL & 964' FEL: SEC 14 T12S-R10E API NO. 43-007-30174
 SPUD
 RIG OFF

 SURFACE
 10/13/1992
 10/16/1992

 PRODUCTION
 10/17/1992
 10/23/1992

